DEPARTMENT OF THE NAVY
COMMANDER
NAVY REGION HAWAII
850 TICONDEROGA ST STE 110
JBPHH, HAWAII 96860-5101

5090
Ser N4/ 382
December 21, 2022

Ms. Roxanne Kwan
Hawaii State Department of Health
Solid and Hazardous Waste Branch
Underground Storage Tank Section
2827 Waimano Home Road #100
Pearl City, Hawaii 96872

Dear Ms. Kwan:

SUBJECT: DECEMBER 2022 QUARTERLY RELEASE RESPONSE REPORT, RED HILL BULK FUEL STORAGE FACILITY, DOH FACILITY ID NO. 9-102271, DOH RELEASE ID NOS. 140010 AND 210012
DOH HEER RELEASE INCIDENT CASE NOS. 20210507-0852 AND 20211120-2330

The Navy is submitting a Quarterly Release Response Report to provide information on release response actions related to the January 2014, May 2021, and November 2021 releases from Red Hill Bulk Fuel Storage Facility in accordance with State of Hawai'i Department of Health (DOH) Technical Guidance Manual. As required by Hawai'i Administrative Rules (HAR) Section 11-280.1-65.2, Release Response Reporting, this report presents release response actions taken pursuant to HAR Section 11-280.1 during the reporting period of August 7 to November 4, 2022, as well as a plan for future release response actions.

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

If the [redacted] please contact [redacted]

Sincerely,

C. J. GEERTSEMA
Captain, CEC, U.S. Navy
Regional Engineer
By direction of the
Commander

5090
Ser N4/ 382
December 21, 2022

Enclosure: 1. Quarterly Release Response Report, Red Hill Bulk Fuel Storage Facility, DOH Facility ID No. 9-102271, DOH Release ID Nos. 140010 and 210012, DOH HEER Release Incident Case Nos. 20210507-0852 and 20211120-2330 of December 21, 2022

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Naval Facilities Engineering Systems Command Hawaii

Quarterly Release Response Report, Red Hill Bulk Fuel Storage Facility

JBPHH, O‘ahu, Hawai‘i

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

December 21, 2022

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Naval Facilities Engineering Systems Command Hawaii

Quarterly Release Response Report, Red Hill Bulk Fuel Storage Facility

JBPHH, O‘ahu, Hawai‘i

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December 21, 2022

Prepared for NAVFAC Hawaii by

AECOM Technical Services Inc
1001 Bishop Street Suite 1600
Honolulu HI 96813-3698

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Executive Summary

This Quarterly Release Response Report (RRR) was prepared for Naval Facilities Engineering Systems Command, Hawaii by AECOM Technical Services, Inc. for the Red Hill Bulk Fuel Storage Facility in accordance with the State of Hawaiʻi Department of Health (DOH) Technical Guidance Manual. As required by Hawaiʻi Administrative Rules Section 11-280.1-65.2, Release Response Reporting, this report presents release response actions taken pursuant to Hawaiʻi Administrative Rules Section 11-280.1 during this reporting period (August 7 to November 4, 2022) and a plan for future release response actions to be taken.

This report now combines release response reporting for three releases of fuel from the Red Hill Bulk Fuel Storage Facility (previously provided in separate RRRs):

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

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

- Continued soil vapor monitoring in the tank farm and Adit 3 and Pearl Harbor Tunnels
- Continued monitoring well free product gauging, groundwater monitoring well headspace, and purge water natural chemistry parameters
- Continued groundwater sampling and analysis and expansion of the groundwater monitoring network (drilling at sentinel well NMW24 commenced this reporting period)
- Adit 3 and Pearl Harbor Tunnel site characterization activities
- Holding Tank and Leach Tank site characterization activities

- Holding Tank and Leach Tank site characterization and soil removal activities
- Installation of two delineation wells in the vicinity of Red Hill Shaft
- Containing, Holding, and Transfer Tank site characterization investigation planning activities
- Remediation pilot test planning activities

Results from this reporting period indicated the following:

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

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

Planned Future Actions

Planned future actions include continued soil vapor monitoring at sampling locations within the tank farm and Adit 3 and Pearl Harbor Tunnels near Red Hill Shaft, and groundwater sampling from the Red Hill monitoring well network, including monitoring wells at the Oily Waste Disposal Facility and new delineation wells being installed in the vicinity of Red Hill Shaft. The Navy is continuing to expand the groundwater monitoring well network as part of plume delineation efforts and to monitor groundwater quality between Red Hill and offsite water supply wells. The Navy is also coordinating with the Honolulu Board of Water Supply to obtain samples from non-Navy wells. Other efforts include continued site characterization activities (Adit 3 and Pearl Harbor Tunnels and the Adit 3 Collection, Holding, and Transfer Tank), a remediation pilot test in Adit 3, and additional removal or remedial actions, as appropriate.

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

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Acronyms and Abbreviations

%	percent
%D	percent difference
%R	percent recovery
°C	degree Celsius
µg/L	micrograms per liter
$\mu g/m^3$	micrograms per cubic meter
1MN	1-methylnaphthalene
2MN	2-methylnaphthalene
AOC	Administrative Order on Consent
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
BWS	Board of Water Supply, City and County of Honolulu
$CaCO_3$	calcium carbonate
CCV	controlled calibration verification
CF&T	contaminant fate and transport
COPC	chemical of potential concern
CSM	Conceptual Site Model
DLA	Defense Logistics Agency
DoD	Department of Defense
DOH	Department of Health, State of Hawai‘i
DQI	data quality indicator
EAL	Environmental Action Level
EB	equipment blank
EDMS	Electronic Data Management System
Energy	Energy Laboratories, Inc.
EPA	Environmental Protection Agency, United States
Facility	Red Hill Bulk Fuel Storage Facility
FB	field blank
ft	foot/feet
GAC	granular activated carbon
GW	groundwater
GWPP	Groundwater Protection Plan
H_2SO_4	sulfuric acid
H_3PO_4	phosphoric acid
HCl	hydrochloric acid
HDPE	high-density polyethylene
HNO_3	nitric acid
ICV	initial calibration verification
ID	identification
JBPHH	Joint Base Pearl Harbor-Hickam
JP	Jet Fuel Propellant

L	liter
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LNAPL	light nonaqueous-phase liquid
LOD	limit of detection
LOQ	limit of quantitation
MEK	methyl ethyl ketone
mg/kg	milligrams per kilogram
mL	milliliter
MS	matrix spike
MSD	matrix spike duplicate
msl	mean sea level
N	naphthalene
N/A	not applicable
$NaHSO_4$	sodium hydrogen sulfate
NAVFAC	Naval Facilities Engineering Systems Command
Navy	Department of the Navy, United States
ND	not detected
no.	number
NOI	notice of interest
oz.	ounce
PAH	polynuclear aromatic hydrocarbon
PID	photoionization detector
ppbv	parts per billion by volume
ppmv	parts per million by volume
PVC	polyvinyl chloride
QC	quality control
RI	remedial investigation
ROV	remotely operated vehicle
RPD	relative percent difference
RRF	relative response factor
RRR	release response report
SGC	silica gel cleanup
SIM	selected ion monitoring
SOP	standard operating procedure
SVE	soil vapor extraction
SVMP	soil vapor monitoring point
SVOC	semivolatile organic compound
TOC	total organic carbon
TPH	total petroleum hydrocarbons
TPH-d	total petroleum hydrocarbons – diesel range organics
TPH-g	total petroleum hydrocarbons – gasoline range organics

TPH-o	total petroleum hydrocarbons – residual range organics (i.e., TPH-oil)
U.S.	United States
UST	underground storage tank
VOA	volatile organic analysis
VOC	volatile organic compound

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1.0 Introduction and Purpose

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

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

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

This report presents a summary of the combined release response activities performed from August 7 to November 4, 2022 in response to the January 2014 Release, the May 2021 Release, and the November 2021 Release at the Red Hill Bulk Fuel Storage Facility (Facility), located at JBPHH, O'ahu, Hawai'i. Previously, Initial and Quarterly Release Response Reports (RRRs) were prepared for each release, as listed in Section 1.2. Specifically, as required by Hawai'i Administrative Rules Section 11-280.1-65.2, this RRR describes:

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

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

- Continued soil vapor monitoring in the tank farm and Adit 3 and Pearl Harbor Tunnels
- Continued monitoring-well free product gauging, groundwater monitoring well headspace, and purge water natural chemistry parameters
- Continued groundwater sampling and analysis and expansion of the groundwater monitoring network (drilling at sentinel well NMW24 commenced this reporting period)

- Adit 3 and Pearl Harbor Tunnel site characterization activities
- Holding Tank and Leach Tank site characterization and soil removal activities
- Installation of two delineation wells in the vicinity of Red Hill Shaft
- Containing, Holding, and Transfer Tank site characterization investigation planning activities
- Remediation and treatability study pilot test planning activities

This report presents field observations and final analytical results available through the reporting period ending November 4, 2022, including:

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

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

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

Current and future conditions of the JBPHH Water Distribution System and related activities are regulated by the State of Hawai‘i Department of Health (DOH) Safe Drinking Water Branch. Therefore, activities and sampling of the drinking water system are not addressed in this RRR.

1.1 Statement of Purpose

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

- January 2014 Release
  - Red Hill Tank Complex (Tank #5): Facility ID No. 9-102271 / DOH Release ID No. 140010, February 3, 2014
- May 2021 Release
  - DOH Hazard Evaluation and Emergency Response Release Incident Case Number (No.) 20210507-0852 on May 10, 2021 (DOH 2021a)

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

1.2 Previous Reports

The following documents were previously submitted to DOH:

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

- Quarterly Release Response Report, May 6 and November 20, 2021 Releases, April 6, 2022
- Quarterly Release Response Report, May 6 and November 20, 2021 Releases, July 7, 2022
- Precipitation Monitoring Memorandum for Sub-Slab Soil Vapor Monitoring Points, Adit 3, July 2022
- Site Characterization Plan Adit 3 LNAPL Step-Out Addendum November 2021 Release, July 2022
- Findings from ROV Inspection #2 Video Review of Red Hill Water Development Tunnel, August 5, 2022
- Quarterly Release Response Report, May 6 and November 20, 2021 Releases, October 3, 2022

2.0 Background

January 2014 Release. During Tank 5 refilling operations in January 2014 following a routine 3-year tank inspection and refurbishment process a release of approximately 27,000 gallons of JP-8 was confirmed and reported to DOH on January 23, 2014. During that month, a fuel hydrocarbon seep was observed on a tunnel wall below Tank 5, and SVMPs installed beneath Tank 5 exhibited a sharp increase in hydrocarbon vapor concentrations. Subsequent analyses indicated that the causes of the release were defective workmanship in welding by the tank refurbishment contractor, poor inspection, and ineffective quality control (QC). The release resulted in the United States (U.S.) Environmental Protection Agency (EPA), DOH, the Navy, and the Defense Logistics Agency (DLA) agreeing to the Red Hill Administrative Order on Consent (AOC) in September 2015 (EPA Region 9 and DOH 2015).

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

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

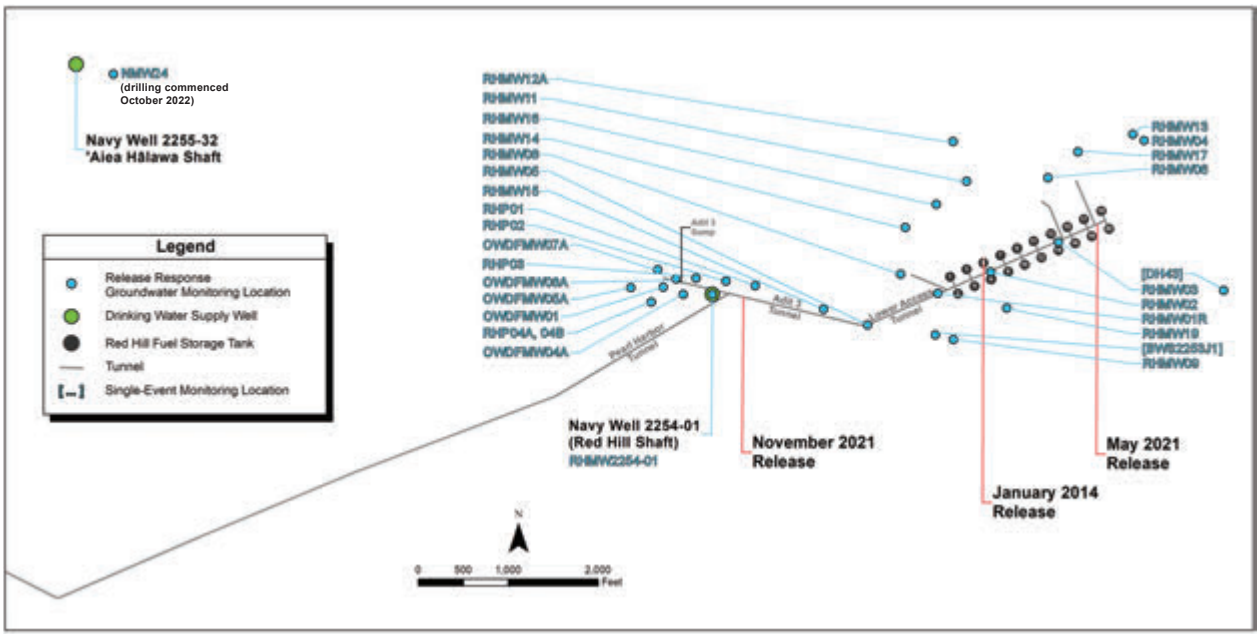

Figure 1: Locations of Releases and Groundwater Monitoring Wells

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

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

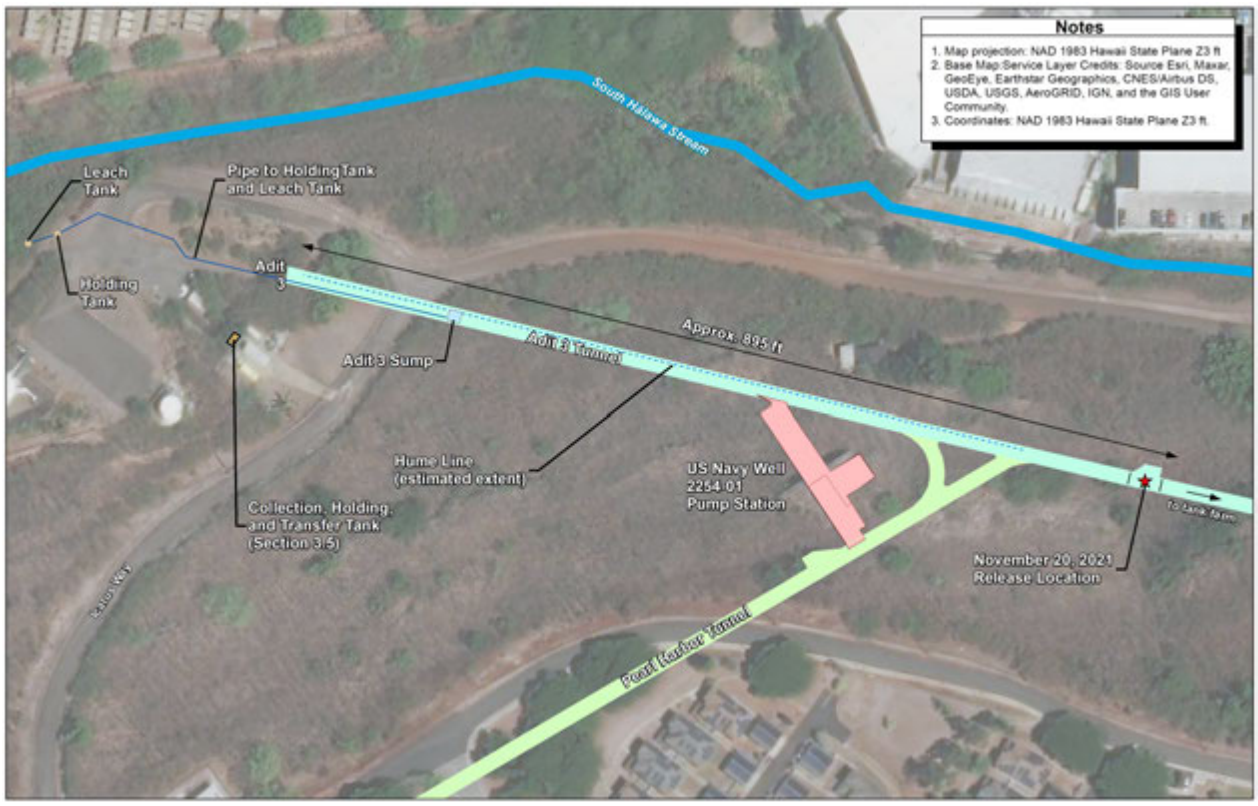

Figure 2: Adit 3 and Pearl Harbor Tunnel Layout Map

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

2.1 Site Description

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

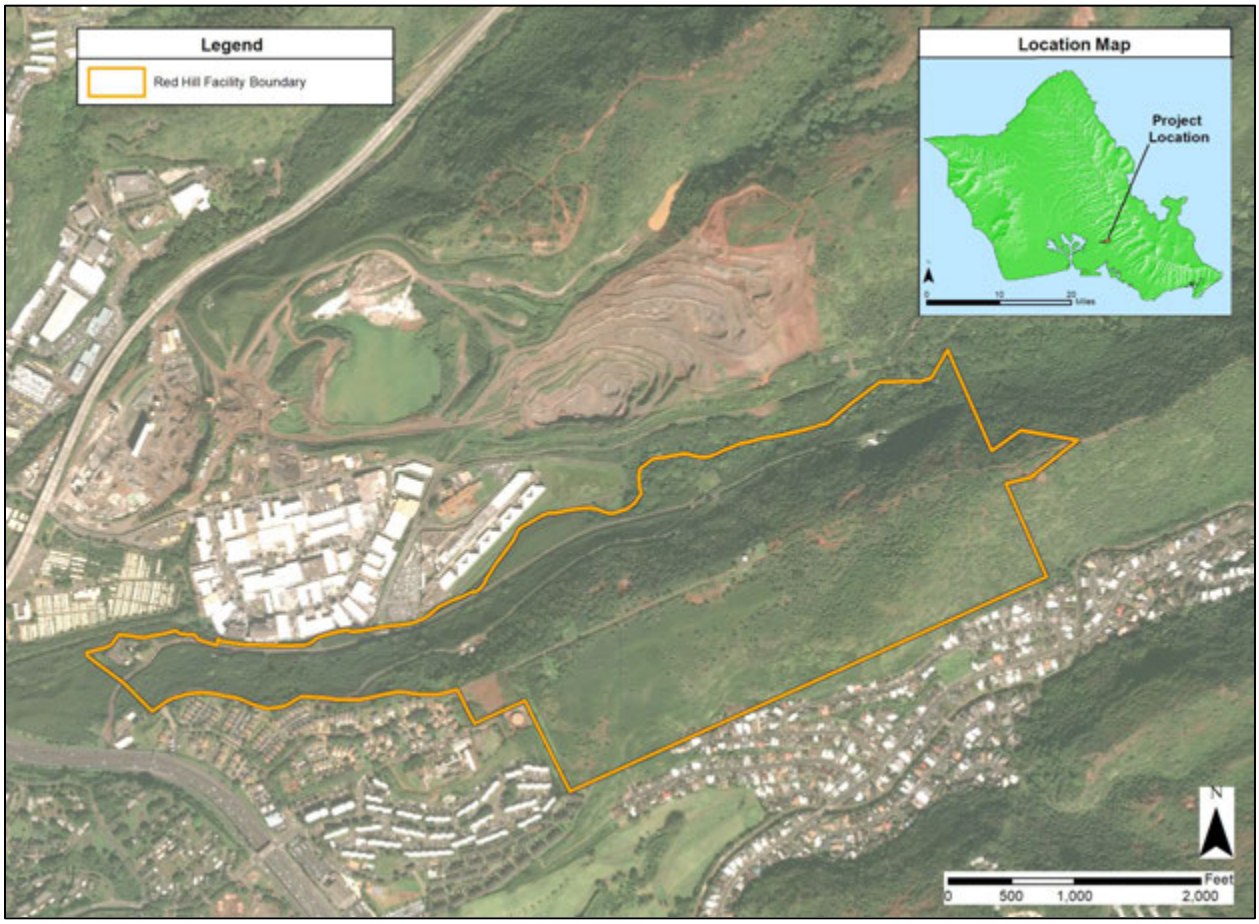

Figure 3: Site Location Map

2.1.1 Climate

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

2.1.2 Soils and Geology

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

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

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

2.1.3 Surface Water

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

2.1.4 Groundwater

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

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

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

2.2 Historical Land Use

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

2.3 Current Land Use

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

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

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

2.4 Conceptual Site Model

2.4.1 Facility Construction and Operations

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

2.4.2 Subsurface Conditions

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

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

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

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

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

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

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

2.4.3 Exposure Model

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

2.5 Previous Facility Investigations

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

Table 1: Summary of Previous Red Hill Environmental Investigations

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

Investigation Report	Summary
Technical Report (DON 2007)	An environmental investigation and risk assessment initiated in 2004 included installation of SVMPs in angle borings under the active fuel storage tanks, three additional groundwater monitoring wells in the lower access tunnel, a three-dimensional groundwater model, and a Tier 3 human health risk assessment.
Tank 17 Removal Action Report (DON 2008c)	A limited removal action and site characterization investigation was conducted in June 2008; the report's Environmental Hazard Analysis determined that the release posed no further significant environmental hazards.
Type 1 Letter Report (DON 2010)	A 2010 investigation re-evaluated the DON (2007) groundwater model assumptions and results, as well as the Tier 3 risk assessment results.
Monthly Soil Vapor Monitoring Reports (DON 2008a)	Soil vapor PID measurements are collected monthly under the Facility's fuel storage tanks with SVMPs in accordance with the Red Hill GWPP (DON 2008a; 2014b); results are reported to DOH.
AOC-Related Investigations (EPA Region 9 and DOH 2015)	
Tank 5 Initial and Quarterly Release Response Reports (DON 2014a to present)	In response to the 2014 fuel release from Tank 5, the Navy reported release response actions undertaken in the last 90 days to DOH.
Seismic Profiling to Map Hydrostratigraphy in the Red Hill Area (DON 2018a)	Presented results and evaluation of nine seismic profiling transects conducted at Red Hill and in North and South Hālawa Valleys and Moanalua Valley to improve understanding of subsurface conditions that affect groundwater flow and CF&T.
Groundwater Protection and Evaluation Considerations for the Red Hill Bulk Fuel Storage Facility (DON 2018c)	Presented an interim environmental analysis of data and an initial analysis of potential environmental risks; interim results of the groundwater flow model; and an evaluation of hypothetical release scenarios.
Conceptual Site Model (DON 2018b; 2019)	Established a basis for evaluating contaminant transport pathways and potential for exposure of human receptors to potentially impacted drinking water.
Groundwater Flow Model Report (DON 2020a)	Refined the previous groundwater flow model to improve understanding of the direction and rate of groundwater flow within the aquifers around the Facility.
Investigation and Remediation of Releases Report (DON 2020b)	Documented the response to the January 2014 Tank 5 release and evaluated potential remedial alternatives for that release and any potential future release.
Evaluation of Chromatograms for Understanding TPH Detections in Monitoring Wells (DON 2020c)	Provided an evaluation of TPH detections in monitoring wells to determine whether those detections are indicative of potential fuel impacts from the Facility.

Investigation Report	Summary
Initial and Quarterly Release Response Reports, Pipeline Breach in Tunnel and Fire Suppression Drain Line (DON 2021a; 2021b; 2021d; 2022c; 2022d; 2022g; 2022i)	Documented the results of release response efforts for the May 6, 2021 Tunnel Pipeline Breach and the November 20, 2021 Fire Suppression Recovery Drain Line releases.

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

3.0 Summary of Investigation History

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

Investigation activities in response to the May 2021 Release began on May 10, 2021 and included soil vapor, groundwater, and drinking water monitoring and free product gauging and headspace measurements. Following the November 2021 Release, site characterization and investigation efforts were expanded to include the Adit 3 and Pearl Harbor Tunnels, a Holding Tank and Leach Tank area outside Adit 3, and video inspection of the Red Hill Shaft water development tunnel.

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

3.1 January 2014 Release Response Activities

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

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

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

Soil vapor monitoring initially included collection of soil vapor PID readings from probes at Tank 2 through 18 and Tank 20 in May 2021 and was reduced in June 2021 to include Tank 11

through 18 and Tank 20 (Figure 4). Summa canister samples for laboratory analyses were collected at least monthly at probes SV15S, SV15D, SV17S, SV17D, SV18S, SV18D, SV20S, and SV20M.

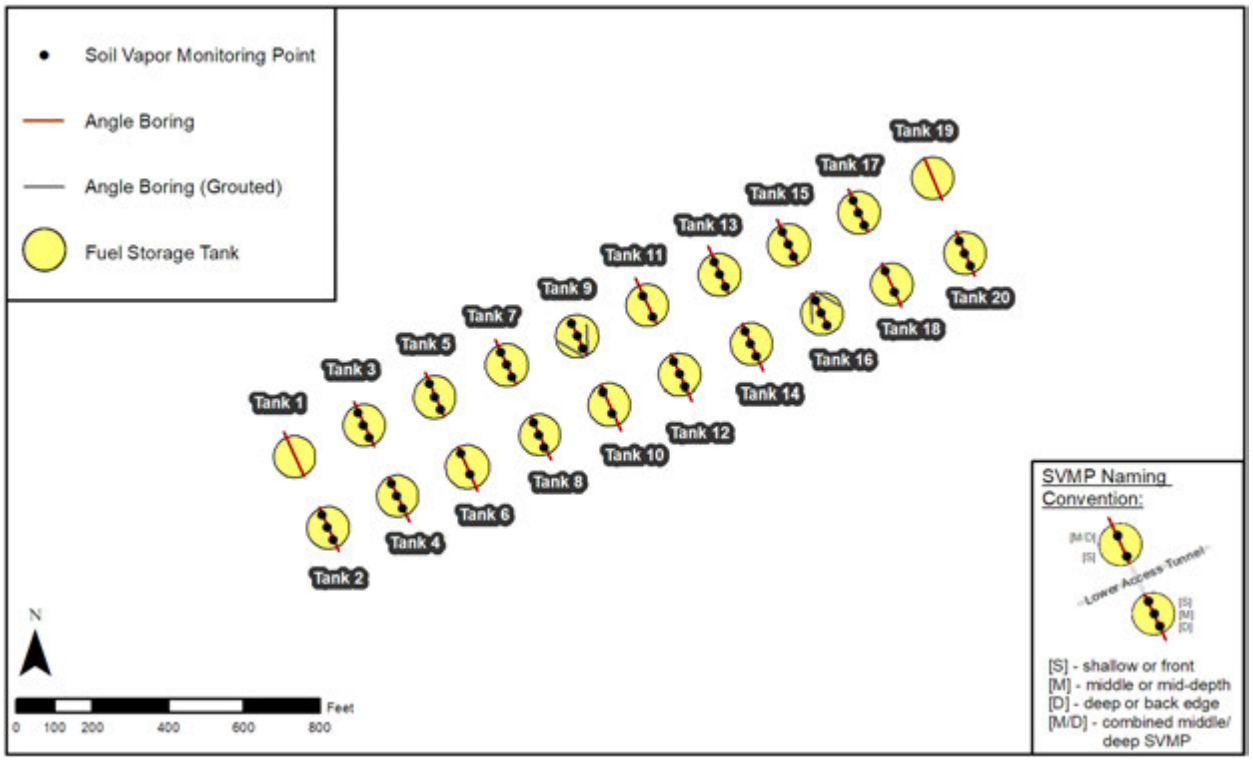

Figure 4: Soil Vapor Monitoring Network Underneath the Red Hill Fuel Storage Tanks

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

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

Groundwater sampling locations were again expanded in December 2021 and January 2022 to include weekly sampling at RHMW04, RHMW06, RHMW08, RHMW09, RHMW12A, RHMW16, RHMW19, OWDFMW01, OWDFMW04A, OWDFMW05A, OWDFMW07A, OWDFMW08A, and multilevel wells RHMW11-05 (Zone 5), RHMW13-05 (Zone 5), RHMW14-03 (Zone 3), and RHMW15-05 (Zone 5), along with including sump water sampling

from Adit 3. Monitoring well RHMW17 was installed and added to the NOI groundwater sampling program in June 2022.

Delineation wells have been installed in the vicinity of Red Hill Shaft at locations shown on Figure 1 and Figure 5 to evaluate groundwater conditions in the vicinity of Red Hill Shaft. The delineation wells are installed to depths of 141–160 ft bgs as 2-inch-diameter wells screened across the basal aquifer water table (approximately 10 ft of screen above and 20 ft of screen below) to provide water chemistry and water level data from the basal aquifer and allow for detection of any fuel product on the water table surface. Data collected during drilling are also evaluated to detect potential impacts to the vadose zone. In this reporting period, five delineation wells are complete: RHP01, RHP02, RHP03, RHP04A, and RHP04B (RHP04A and RHP04B were installed during this reporting period, but only RHP04A was sampled during this reporting period). Installation of additional wells is ongoing. Additional details (e.g., boring logs, well construction details) on the delineation well installation and water quality data are uploaded to the Red Hill Electronic Data Management System (EDMS) and are reported in the quarterly RRR as they are acquired.

Installation of sentinel wells as part of the expansion of the Red Hill Monitoring Network commenced with the drilling of well NMW24 located approximately 430 ft southeast of Navy ʻAiea Hālawa Shaft (see Figure 1).

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

3.3 Site Characterization at Adit 3

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

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

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

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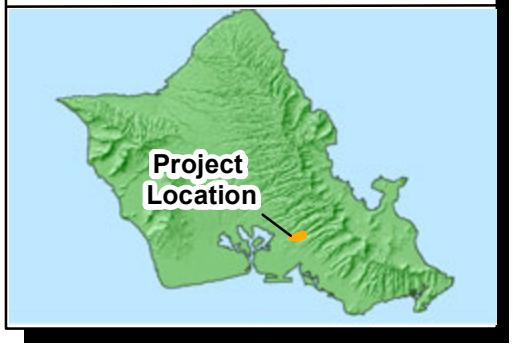
Location Map



Legend

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

Notes

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

N

0 150 300 600 Feet

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

3.3.1 Geophysical Characterization

A geophysical characterization of subsurface features using two survey lines of electrical resistivity, induced polarization, and ground-penetrating radar was conducted between January 28 and February 2, 2022 in sections of the Adit 3 and Pearl Harbor Tunnels to facilitate understanding of LNAPL downward migration and potentially identify pooled LNAPL in the vadose zone. A ground-penetrating radar survey consisting of 16 survey lines was also conducted in the Lower Access Tunnel in the vicinity of Tanks 17 through 20 (HGI 2022).

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

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

Soil Sampling. Six shallow trenches were excavated through the Adit 3 and Pearl Harbor Tunnel floors during March–April 2022 to evaluate hotspots identified by subslab SVMP monitoring and to uncover the concrete Hume drain line. Both discrete and multi-incremental soil samples were collected at the locations shown on Figure 6 and analyzed for TPH-g, TPH-d, and TPH-o; benzene, toluene, ethylbenzene, and xylenes (BTEX); and naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene (N, 1MN, and 2MN, respectively). The Hume drain was encountered in the sixth trench excavated, and a riser pipe and cap were installed in the line for data gathering or potential future remedial actions. PID samples of organic vapor collected from the pipe indicated it had been impacted with hydrocarbons, likely from the November 2021 Release.

Soil Vapor Sampling. Two near-surface SVMPs and 52 subslab SVMPs were installed in the floor of the Adit 3 and Pearl Harbor Tunnels and sampled weekly through the week of June 20, 2022 and monthly thereafter using hand-held PIDs to collect real-time measurements.

Water and LNAPL Sampling.

Shallow borings were installed in five of the trenches to conduct near-surface soil vapor monitoring (5–6 ft below tunnel floor) (Figure 7). A perched water body was encountered in three of the borings, and fuel oil identified by laboratory analysis as JP-5 was observed in the trench boring (A3+000) located adjacent to the U.S. Navy Well 2254-01 Pump Station. Near-surface SVMPs were installed in early April 2022 in two borings (2S+075-TR in the Pearl Harbor Tunnel approximately 75 ft from the Adit 3 eastern merge, and A3-375-TR in the Adit 3 Tunnel where the November 20, 2021 valve break occurred). The near-surface SVMPs have been sampled along with the subslab SVMPs since April 13, 2022.

3.3.3 LNAPL Site Characterization at Adit 3

In response to the observation of LNAPL in the trench boring at A3+000 and in consultation with DOH, the Navy began implementing a *LNAPL Site Characterization Plan Addendum* (DON 2022f), which included installation of 25 shallow soil borings to a maximum depth of 6 ft below

the tunnel floor along the Adit 3 and Pearl Harbor Tunnels and installation of seven temporary wells in seven of these borings. Shallow borehole and temporary well sampling locations for the LNAPL site characterization effort are included on Figure 7 and described below.

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

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

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

LNAPL site characterization activities conducted during the current reporting period are described in Sections 5.1.2 and 5.3.3. Details and results will be presented in a forthcoming Adit 3 and Pearl Harbor Tunnel Area technical memorandum.

3.4 Site Characterization at Holding Tank and Leach Tank Area

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

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

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

The Phase 2 findings led to excavation and removal of both tanks and approximately 97 tons of soil in May 2022. Waste characterization soil samples were collected and analyzed for TPH-g, TPH-d, and TPH-o prior to the excavation event, and the excavated soil was properly disposed of at a permitted landfill. Removal activities were subsequently completed during this reporting period with an additional soil excavation in October 2022, as discussed in Section 5.4.

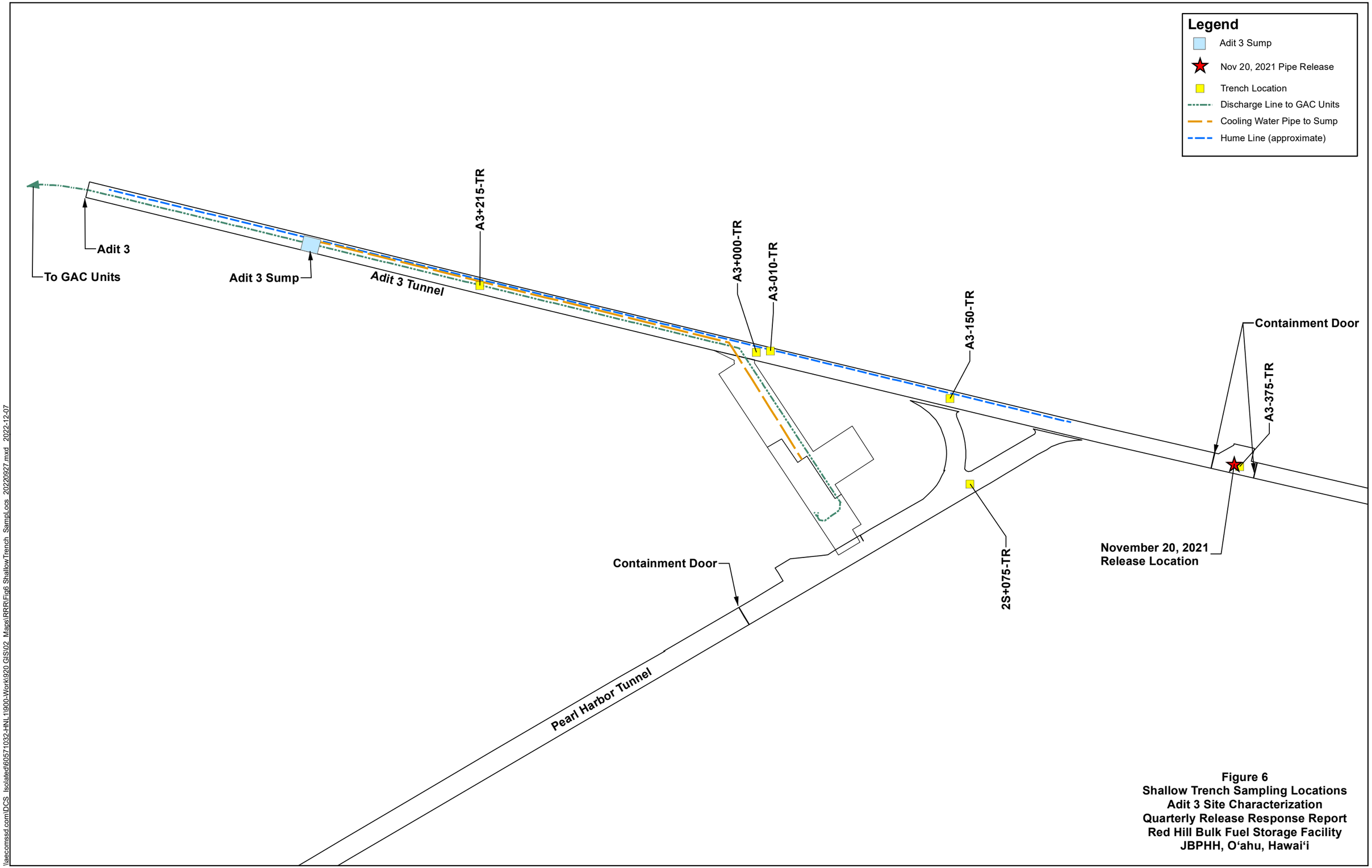


Figure 6
Shallow Trench Sampling Locations
Adit 3 Site Characterization
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, O'ahu, Hawai'i

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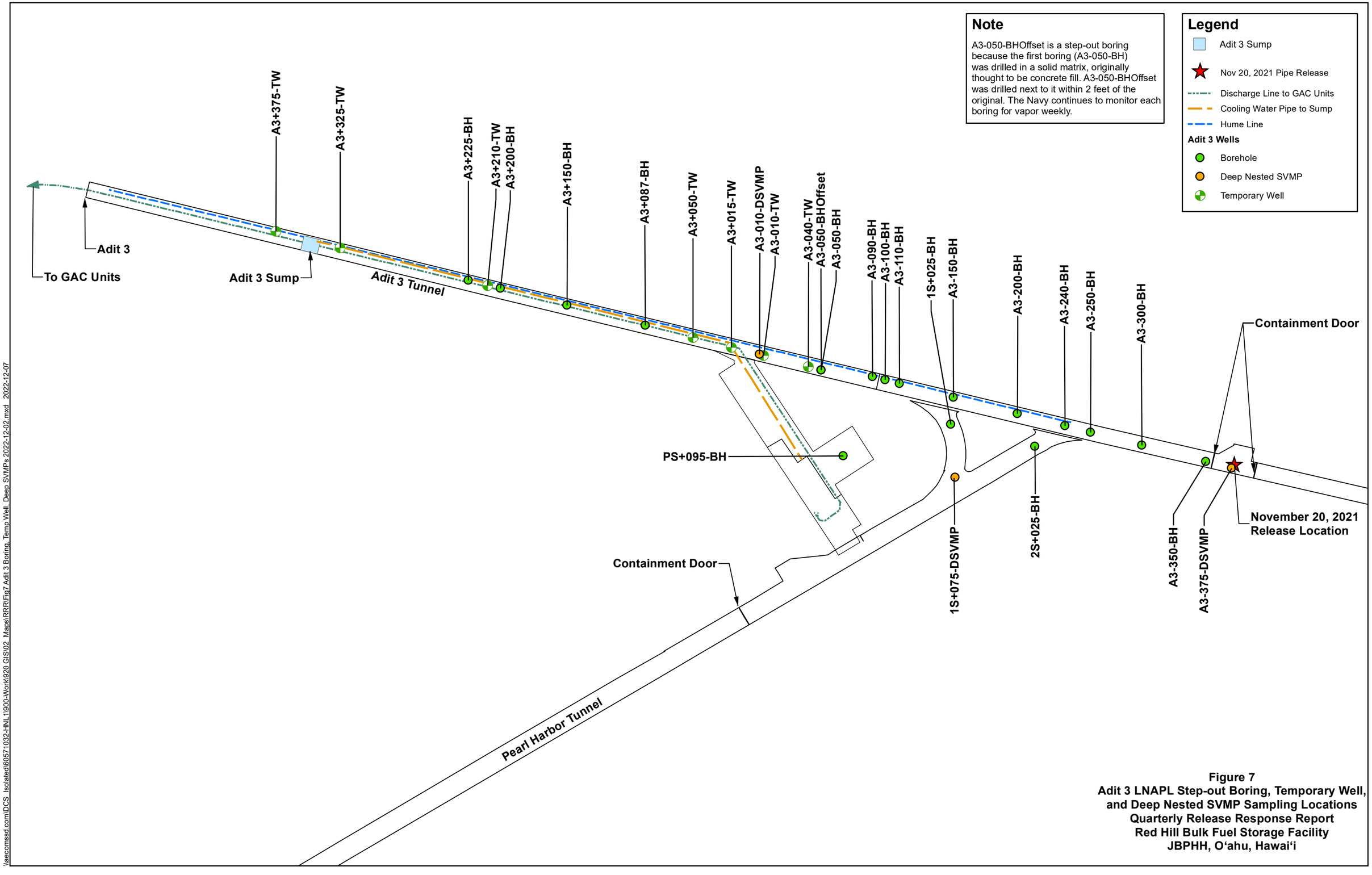

Figure 7
Adit 3 LNAPL Step-out Boring, Temporary Well, and Deep Nested SVMP Sampling Locations
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, O'ahu, Hawai'i

\\aecomssd.com\DCS_Isolated\60571032-HNL-1900-Work\920 GIS\02_Maps\RRR\Fig7 Adit 3 Boring, Temp Well, Deep SVMPs 2022-12-02.mxd 2022-12-07

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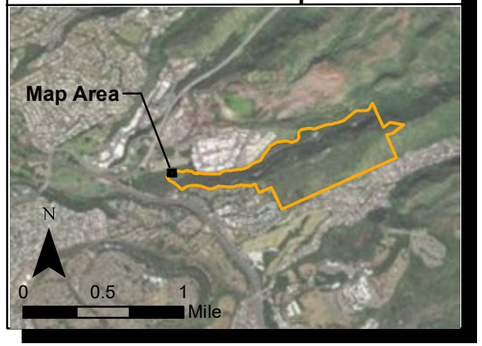
Location Map



Legend

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

Notes

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

N

0 7.5 15 30 Feet

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

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3.5 Site Characterization at Collection, Holding, and Transfer Tank

Site characterization activities are planned as part of a Phase I assessment to characterize the nature and lateral extent of petroleum hydrocarbon impact in near-surface soil around the Collection, Holding, and Transfer (CHT) Tank located outside Adit 3 (see Figure 2). Additional activities will include characterizing and quantifying the amount of LNAPL, petroleum-contaminated water, and petroleum-impacted sludge stored in four fractionation (frac) tanks of recovered material near Adit 1 to quantify the amount of petroleum recovered.

3.6 Inspection of Water Development Tunnel

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

4.0 Summary of Data Quality Objectives

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

4.1 Soil Vapor

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

Adit 3 Soil Vapor Sampling. Routine monitoring of the 52 SVMPs installed in the tunnel floor near Adit 3 and in the Pearl Harbor Tunnel has been conducted to further characterize the nature and extent of impacts from the November 2021 Release near Adit 3. Results have been used to identify initial hotspots and to lead additional subsurface soil, LNAPL, and groundwater studies to develop a complete conceptual site model (CSM) for the development of future feasibility studies and remedial designs.

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

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

4.2 Groundwater

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

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

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

4.3 Soil and Rock

The objectives of the quantitative discrete subsurface soil samples collected from the Adit 3 and Pearl Harbor Tunnel area and Holding Tank and Leach Tank area for laboratory analysis include:

- Conservatively evaluate the concentrations of site-specific COPCs in each soil boring compared to site-specific and constituent-specific DOH Table 2-A Soil Action Levels, as presented in the *Preliminary Site Characterization Plan* (DON 2022a)
- Evaluate the potential for COPCs to have migrated below the bottom of the borehole and potentially into the underlying groundwater systems
- Use the results to support the development of a conceptual site model for a feasibility study remedial design, or for direct removal action design

4.4 Data Usability

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

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

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

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

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

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

Table 2: Target Analytes for Middle-Distillate Contaminated Media

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

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

Table 3: DOH Environmental Action Levels

Analytical Method	Analyte	EALs		
		Soil (mg/kg) [a]	Groundwater (µg/L) [b]	Soil Vapor (µg/m^3) [c]
SW-8260	TPH-g	**100** / 450 / 700	500 / **300**	4.9×10^6
	Benzene	500 / 1.2 / **0.3**	170 / **5**	6,300
	Toluene	500 / 820 / **0.78**	**40** / 1,000	1.8×10^7
	Ethylbenzene	480 / 62 / **0.9**	**30** / 700	2×10^5
	Xylenes	260 / 130 / **1.4**	**20** / 10,000	3.5×10^5
SW-8270	N	500 / 28 / **3.1**	21 / **17**	1.1×10^4
	1MN	500 / 170 / **0.89**	**10** / 27	9.8×10^5
	2MN	500 / 39 / **1.9**	**10** / 24	5.6×10^4
SW-8015	TPH-d	500 / **220** / 940	500 / **400**	2.2×10^6
	TPH-o	**500** / 9,400 / 1,000	**500** / 2,400	N/A

Source: Hawai‘i Department of Health Environmental Action Level Surfer (Fall 2017) (DOH 2017).
Bold Values: Tier 1 EALs used for soil and groundwater data screening. Soil criteria EAL based on < 150 meters to surface water, and groundwater EALs based on > 150 meters to surface water for sites where groundwater is a current or potential source of drinking water.
µg/L micrograms per liter
µg/m^3 micrograms per cubic meter
mg/kg milligrams per kilogram
N/A not applicable; EAL not provided
TPH-g TPH-gasoline range organics
[a] Soil EALs = (Gross Contamination) / (Direct Exposure) / (Leaching to Groundwater)
[b] Groundwater EALs = (Odor Taste Threshold) / (Drinking Water Toxicity)
[c] Soil Vapor EALs = (Commercial / Industrial Shallow Soil Vapor Action Levels) (Table C)

5.0 Field Activities

Activities performed to characterize soil vapor, groundwater, and soil during this reporting period are described below. Site characterization activities associated with the Adit 3 and Pearl Harbor

Tunnel and the Holding Tank and Leach Tank areas are also summarized below; the data and results of these two investigations will be documented separately in forthcoming reports.

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

5.1 Soil Vapor Monitoring

5.1.1 Below-Tank SVMPs

AOC soil vapor measurements were collected during three events this reporting period: August 19, September 16, and October 20, 2022. For NOI sampling, soil vapor measurements were collected during 13 weekly sampling events were completed from August 7 to November 4, 2022. VOC concentrations at SVMPs below the fuel storage tanks were measured in the field using hand-held PIDs at all SVMPs under Tanks 2 through 18 and 20; locations are shown on Figure 4. In addition, Summa canister samples for laboratory analysis were collected monthly from SV15S, 15D, 17S, 17D, 18S, 18D, 20M, and 20D. This report covers the laboratory results for the August, September, and October 2022 monthly sampling events.

5.1.2 Adit 3 and Pearl Harbor Tunnel SVMPs

During this reporting period, SVMPs were sampled monthly as part of implementing the *Preliminary Site Characterization Plan* (DON 2022a) and *LNAPL Site Characterization Plan* (DON 2022f) (Section 3.3). Figure 9 depicts the location of each tunnel SVMP and the organic vapors measured between December 17, 2021 and September 12, 2022 (the last sampling event within this reporting period). No "out of frequency" sampling was conducted during this reporting period because no rainfall events of greater than 1 inch in a 24-hour period were documented (DON 2022e).

Real-time measurements were collected using hand-held PIDs on September 12, 2022 from:

- 52 subslab SVMPs
- 2 near-surface SVMPs
- 4 intermediate SVMPs
- 2 deep nested SVMPs

Between July 13 and September 19, 2022, three deep nested SVMPs were installed within the Adit 3 and Pearl Harbor tunnels at the locations shown on Figure 7:

- A3-010-DSVMP, installed adjacent to the U.S. Navy Well 2254-01 Pump Station doorway in the Adit 3 Tunnel, through the perched water body to a depth of 72 ft the below tunnel floor (approximately 29 ft above mean sea level [msl]). Three nested SVMPs and temperature probes were installed at 40, 48.5, and 62 ft below the tunnel floor.
- 1S+075-DSVMP, installed where two spurs of the Pearl Harbor/Adit 3 wye converge in the Pearl Harbor Tunnel approximately 75 ft south of the Adit 3 and Pearl Harbor Tunnel

merge to a depth of 68 ft below the tunnel floor (33 ft msl) in the vicinity of the underlying U.S. Navy Well 2254-01 water development tunnel, whose ceiling is estimated to be at approximately 25 ft msl at this location. Four nested SVMPs and temperature probes were installed at 12.6, 29, 39, and 58 ft below the tunnel floor.

- A3-375-DSVMP, installed directly adjacent to the November 20, 2021 valve release of JP-5 (the focus of this report), approximately 375 ft east of the U.S. Navy Well 2254-01 Pump Station entrance way to a depth of 70 ft below the tunnel floor (approximately 31 ft msl) in the vicinity of the underlying U.S. Navy Well 2254-01 water development tunnel, whose ceiling is estimated to be at approximately 25 ft msl at this location. Four nested SVMPs and temperature probes were installed at 12.5, 34.5, 47.5, and 63.5 ft below the tunnel floor.

The study area was closed for work on September 25, 2022 and all vaults were sealed to accommodate unpacking activities, and these deep nested SVMPs were not sampled during the current reporting period.

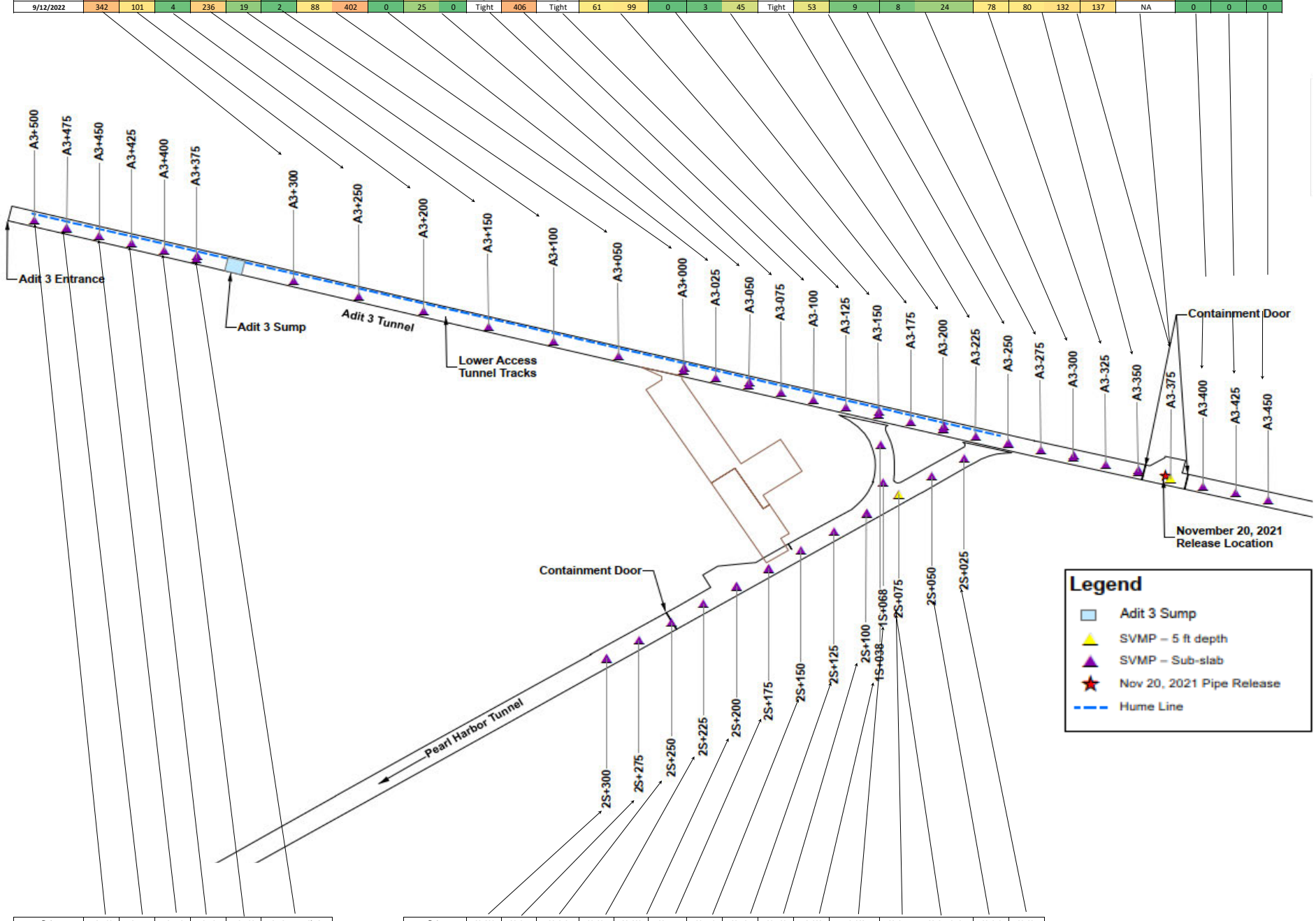
5.2 Free Product Gauging and Groundwater Monitoring Well Headspace Measurements

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

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

For Adit 3 sampling ,as described in Section 3.3, LNAPL was identified in the shallow trench boring installed adjacent to the U.S. Navy Well 2254-01 Pump Station in March 2022 (Figure 6), and additional step-out borings were installed to evaluate the extent of LNAPL on the perched water table (Figure 7). Water levels have also been measured weekly since March 2022. During that time, evidence of LNAPL has been observed in A3+015-BH, A3+000-BH, A3-010-BH, and A3-040-BH, covering approximately 65 linear ft of the shallow subsurface beneath the tunnel floor. Details will be provided in a forthcoming Adit 3 and Pearl Harbor Tunnel Area technical memorandum.

Date	A3+300	A3+250	A3+200	A3+150	A3+100	A3+050	A3a+000	A3b+000	A3-025	A3a-050	A3b-050	A3-075	A3-100	A3-125	A3a-150	A3b-150	A3-175	A3a-200	A3b-200	A3-225	A3-250	A3-275	A3a-300	A3b-300	A3-325	A3a-350	A3b-350	A3-375	A3-375-05.0	A3-400	A3-425	A3-450
12/17/2021	67	101	55	43	39	40	24	33	28	24	35	36	44	29	83	95	69	56	51	13	27	36	56	51	47	36	47	288	NA	2.3	NA	NA
12/20/2021	235	178	88	96	67	85	65	79	57	54	69	NT	65	32	92	108	42	57	69	7	38	58	43	75	142	275	246	290	NA	15	NA	NA
12/21/2021	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	71	78	15	66	68	66	76	72	76	87	181	NA	17	NA	NA
12/22/2021	55	106	51	62	62	37	45	60	42	56	45	12	92	16	69	85	36	36	45	7	30	50	23	35	49	41	49	96	NA	18	NA	NA
12/23/2021	106	350	192	233	205	138	215	203	151	258	101	9.3	302	9	257	321	112	73	157	4	102	121	85	120	163	228	196	407	NA	24	NA	NA
12/24/2021	120	281	282	131	462	101	448	471	105	423	208	NT	407	NT	475	490	71	116	374	NT	97	408	197	73	139	409	155	450	NA	17	NA	NA
12/27/2021	NT	240	79	160	141	99	180	181	106	160	118	NT	264	NT	265	157	66	49	53	NT	36	52	24	36	38	58	26	443	NA	14	NA	NA
12/29/2021	Wet	Wet	76	117	103	45	101	110	65	97	83	NT	203	NT	180	181	53	37	85	Wet	52	68	28	14.2	86	125	81	128	NA	2	NA	NA
12/30/2021	Wet	Wet	74	109	85	45	87	87	47	86	73	Wet	142	Wet	155	153	52	46	82	Wet	56	62	41	54	73	66	88	82	NA	2	NA	NA
12/31/2021	Wet	Wet	175	341	278	65	342	387	111	227	110	Wet	679	Wet	617	682	114	146	403	Wet	228	308	80	135	377	365	408	444	NA	14	NA	NA
1/6/2022	Wet	614	238	426	415	95	497	544	133	118	139	Tight	618	Wet	527	627	358	158	422	Wet	196	370	74	167	399	342	381	410	NA	8	NA	NA
1/12/2022	628	550	184	386	350	64	398	410	98	239	108	Tight	416	Tight	466	547	74	105	342	Tight	174	338	51	132	328	318	401	396	NA	1	1	1
1/19/2022	654	531	148	313	343	65	316	344	89	177	108	Tight	439	Tight	597	622	89	138	312	Tight	160	277	66	134	338	349	450	408	NA	69	55	52
1/26/2022	Wet	667	157	335	320	64	334	386	96	364	99	Tight	624	Tight	538	669	93	81	336	Tight	151	291	53	123	339	352	367	416	NA	3	1	1
2/2/2022	Wet	598	159	391	389	41	400	414	75	219	78	Tight	673	Tight	432	701	109	105	362	Tight	152	365	61	105	374	400	392	399	NA	1	1	2
2/9/2022	664	498	135	298	341	50	293	325	77	167	103	Tight	474	Tight	457	535	85	71	283	Tight	151	268	42	127	312	251	399	397	NA	1	1	1
2/18/2022	369	295	77	187	181	30	186	180	35	181	60	Tight	254	Tight	230	259	21	33	140	Tight	49	69	16	41	80	81	115	91	NA	1	1	1
2/23/2022	442	383	104	220	236	41	253	255	53	126	63	Tight	362	Tight	353	396	22	221	213	Tight	68	113	34	68	138	133	157	152	NA	1	1	1
3/2/2022	508	424	125	290	298	37	307	330	66	142	72	Tight	437	Tight	401	440	53	48	235	Tight	113	147	34	90	219	188	245	248	NA	2	2	2
3/16/2022	295	213	60	103	108	15	112	57	22	55	31	Tight	238	Tight	125	175	56	28	134	Tight	63	145	42	72	115	95	98	79	124	1	1	1
3/23/2022	169	150	45	129	77	31	97	123	34	37	24	Tight	158	Tight	81	120	27	30	99	Tight	53	112	22	67	114	76	100	59	106	1	1	1
3/30/2022	245	181	42	157	68	17	62	123	13	38	29	Tight	173	Tight	78	119	46	21	101	Tight	53	78	19	54	114	89	125	57	123	0	0	0
4/6/2022	192	89	32	83	57	15	88	133	17	61	23	Tight	171	Tight	96	139	14	20	87	Tight	59	96	21	65	121	87	120	51	117	1	1	1
4/13/2022	236	163	36	152	66	17	74	110	15	57	22	Tight	162	Tight	110	140	13	19	83	Tight	50	86	18	58	121	91	97	66	100	0	0	0
4/20/2022	227	136	34	139	59	14	80	101	16	42	13	Tight	146	Tight	97	135	17	18	83	Tight	41	68	20	47	103	85	98	52	108	1	1	1
4/27/2022	234	131	34	133	58	14	78	104	17	41	15	Tight	151	Tight	97	141	18	17	79	Tight	44	76	15	44	92	79	104	56	113	0	0	0
5/4/2022	272	147	30	134	53	35	78	118	42	55	37	Tight	157	Tight	92	119	12	14	69	Tight	35	47	17	38	90	59	86	69	107	1	1	1
5/9/2022	862	283	53	259	142	64	95	199	71	83	55	Tight	300	Tight	152	196	18	24	130	Tight	56	75	24	62	156	102	137	129	189	2	2	2
5/16/2022	254	145	19	143	72	30	37	99	30	37	29	Tight	158	Tight	77	88	3	6	65	Tight	25	35	15	34	77	54	76	66	95	0	0	0
5/23/2022	278	137	10	141	71	21	26	111	25	32	29	Tight	155	Tight	72	85	3	4	58	Tight	23	31	10	26	70	53	79	71	92	0	0	0
5/31/2022	244	116	11	116	48	17	12	94	18	28	19	Tight	124	Tight	50	66	2	4	47	Tight	17	22	10	21	63	48	70	70	83	0	0	0
6/6/2022	303	164	11	158	68	18	16	152	26	47	31	Tight	206	Tight	78	107	6	9	59	Tight	19	24	12	25	77	30	53	34	47	0	0	0
6/13/2022	350	156	16	175	87	14	6	129	19	26	14	Tight	160	Tight	78	90	5	8	62	Tight	18	23	7	25	79	58	80	53	81	0	0	1
6/20/2022	325	160	15	136	57	16	76	151	21	44	29	Tight	190	Tight	55	73	6	7	58	Tight	14	17	6	19	61	38	43	85	89	1	1	1
7/11/2022	435	262	95	289	61	6	164	330	14	47	23	Tight	437	Tight	94	124	0	0	74	Tight	20	23	15	27	134	96	149	176	210	0	0	0
8/8/2022	613	253	10	38	65	0	52	NA	14	82	34	Tight	504	Tight	140	124	0	5	90	Tight	24	24	20	41	166	138	56	300	320	0	0	0
9/12/2022	342	101	4	236	19	2	88	402	0	25	0	Tight	406	Tight	61	99	0	3	45	Tight	53	9	8	24	78	80	132	137	NA	0	0	0



Date	A3+500	A3+475	A3+450	A3+425	A3+400	A3a+375	A3b+375
12/17/2021	33	4	3	20	55	120	92
12/20/2021	96	56	54	86	244	350	269
12/21/2021	NT	NT	NT	NT	NT	NT	NT
12/22/2021	56	41	43	50	64	115	114
12/23/2021	193	145	160	178	215	405	408
12/24/2021	122	76	82	96	101	201	244
12/27/2021	NT	90	113	159	134	239	281
12/29/2021	Wet	39	44	48	81	196	193
12/30/2021	Wet	43	47	55	63	109	157
12/31/2021	Wet	38	45	62	85	785	673
1/6/2022	Wet	45	53	70	97	560	474
1/12/2022	107	38	45	57	72	486	263
1/19/2022	Wet	42	54	59	72	458	163
1/26/2022	291	30	37	50	64	683	225
2/2/2022	444	17	21	27	36	438	144
2/9/2022	112	26	31	42	67	384	169
2/18/2022	118	27	33	40	55	239	136
2/23/2022	70	25	30	40	50	323	124
3/2/2022	148	36	40	49	73	405	187
3/16/2022	83	9	9	12	15	193	82
3/23/2022	28	9	12	15	21	151	58
3/30/2022	75	7	8	9	13	151	53
4/6/2022	46	14	17	21	26	85	49
4/13/2022	76	9	11	12	17	141	53
4/20/2022	70	8	9	10	12	129	51
4/27/2022	68	9	12	15	18	126	52
5/4/2022	12	8	10	11	16	128	57
5/9/2022	20	19	24	23	29	249	102
5/16/2022	4	6	5	7	10	146	49
5/23/2022	0	3	4	6	7	143	42
5/31/2022	1	3	4	7	10	123	35
6/6/2022	4	4	7	9	15	180	49
6/13/2022	8	9	12	13	16	179	44
6/20/2022	13	9	10	13	15	153	46
7/11/2022	1	1	4	6	11	280	43
8/8/2022	0	4	66	6	13	376	41
9/12/2022	0	0	0	0	0	159	85

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

Figure 9. **Soil Vapor Monitoring Point Results**
December 17, 2021 - September 12, 2022
Adit 3 Tunnel and Pearl Harbor Tunnel

Scale
ppmv
862
650
550
450
350
250
150
50
0

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5.3 Groundwater Sampling

5.3.1 NOI Groundwater Sampling

In accordance with the *NOI Groundwater Sampling Plan* revised on December 27, 2021 (Appendix B.6; note contingent revision provided to DOH on February 10, 2022), the following locations were monitored during this reporting period, as depicted on Figure 1 and Figure 2:

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

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

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

Sentinel well NMW24 (Figure 1) is under construction and will be sampled in the next reporting period.

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

Due to issues meeting turnaround times, analyses for SVOCs and PAHs were transferred from Energy Laboratories, Inc. to Eurofins Seattle for samples collected from February 28, 2022; from August 1, 2022 to current, the entire NOI analytical panel has been analyzed solely by Eurofins Seattle. Eurofins Seattle is accredited under DoD Environmental Laboratory Accreditation Program for the analyses performed.

For the NOI sampling effort at DOH's request, monitoring wells with sampling zones that intersect the water table were sampled with a bailer without purging. However, several groundwater sampling locations are confined and therefore must be sampled with a pump.

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

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

For a 2-week period from October 10 through October 21, 2022, NOI groundwater sampling activities were discontinued while sampling was conducted under the Red Hill groundwater long-term monitoring program. However, due to the pipeline unpacking activities within the tunnel, the groundwater long-term monitoring event has been postponed until after completion of the unpacking activities, which is anticipated to be on November 26, 2022. During the unpacking event, NOI groundwater sampling frequency increased to twice a week beginning on October 17, 2022 for wells monitored for the NOI Program. An initial baseline monitoring prior to the unpacking activities occurred during October 10–16, 2022.

5.3.2 Delineation Well Groundwater Sampling

Delineation wells RHP01 and RHP02 were installed in June 2022, followed by RHP03 and RHP04A in August 2022 (Figure 5). Although RHP04B was installed on November 3, 2022, it was not sampled until after the end of the current reporting period. The well locations are depicted on Figure 5. Each well was sampled using a low-flow pump twice a month for a minimum of

2 months after completion. Samples were analyzed for BTEX, TPH-g, TPH-d, TPH-o, N, 1MN, and 2MN. Initial sampling of each well also included natural attenuation parameters (alkalinity, bicarbonate alkalinity as calcium carbonate [$CaCO_3$], carbonate alkalinity as $CaCO_3$, nitrate as nitrogen, nitrate-nitrite as nitrogen, chloride, sulfate, methane, ferrous iron, and TOC). The analytical testing was conducted by Eurofins Seattle and its sister facilities in Arvada, Colorado, and Lancaster, Pennsylvania. The data obtained will be evaluated to determine future sampling requirements.

During the pipeline unpacking activities, the delineation well sampling frequency increased to twice a week beginning on October 17, 2022, and is anticipated to continue at this frequency through November 26, 2022. Baseline monitoring prior to the unpacking event occurred from October 14 through October 16, 2022.

5.3.3 Adit 3 and Pearl Harbor Tunnel Water Sampling

The LNAPL site characterization effort (Section 3.3.2) identified petroleum-impacted groundwater in the perched zone located between 4 and 15 ft below the tunnel floor. As shown on Figure 7, shallow soil borings were installed, and seven selected borings were developed into temporary groundwater wells during this reporting period for sampling to characterize the extent and magnitude of petroleum-impacted perched water in the area:

- A3+375-TW, A3+325-TW, A3+210-TW, A3+050-TW, A3+015-TW, A3-010-TW, and A3-040-TW

The temporary wells were installed and developed during September 1–8, 2022 and sampled on September 12, 2022. Groundwater samples were analyzed for TPH-g, TPH-d, TPH-o; 1MN, 2MN, and N; and BTEX. Details will be provided in a forthcoming technical memorandum.

5.3.4 Groundwater Sampling at State Well ID No. 3-2253-02 (DH-43) and State Well ID No. 3-2253-006 (BWS2253J1 Well)

In October 2022, the Navy collected split samples with BWS at monitoring wells State Well ID No. 3-2253-02 (DH-43) and State Well ID No. 3-2253-006 (BWS2253J1 Well), shown on Figure 1. The samples were analyzed for the NOI parameters identified in Section 5.3.1.

State Well ID No. 3-2253-02 (DH-43). Well DH-43 is located adjacent to Red Hill in Moanalua Valley. A video survey was conducted in 2014 to obtain information on the well completion details. The well consists of a 2-inch galvanized steel pipe set inside a 4-inch galvanized steel casing. The 2-inch pipe extends to approximately 244 ft bgs, but the video inspection could not be conducted below 244 ft bgs. Below that, the bottom of the well was tagged at a depth of approximately 275.46 ft bgs using a water level indicator probe; however, it is unknown if the well is completed as an open borehole or cased by the 4-inch casing below 244 ft bgs.

Groundwater purging and sampling was conducted on October 11, 2022 using a bailer. The initial depth to water was measured at 215.18 ft below top of casing (approximately 214.46 ft bgs), and

the final water depth was recorded at 215.17 ft below top of casing. The headspace measured in the well with a PID was 0.0 ppmv.

State Well ID No. 3-2253-006 (BWS2253J1 Well). BWS2253J1 Well is located beside a BWS water tank southwest of the Red Hill fuel storage tanks and adjacent to the Red Hill Facility boundary and RHMW09. The well is completed with 20 ft of polyvinyl chloride (PVC) screen set at a depth of approximately 355–375 ft bgs. Groundwater purging and sampling was conducted on October 12, 2022 using a dedicated bladder pump and low-flow purging methods. The initial and final depth to water was 369.11 ft below top of casing (approximately 366.52 ft bgs). The headspace measured in the well with a PID was 0.0 ppmv.

5.4 Soil Sampling

Adit 3 and Pearl Harbor Tunnel Area. Previous soil sampling conducted in the area as part of implementing the *Preliminary Site Characterization Plan* (DON 2022a) and *LNAPL Site Characterization Plan* (DON 2022f) is described in Section 3.3.

Holding Tank and Leach Tank Area. Previous site characterization activities at the Holding Tank and Leach Tank area are described in Section 3.4.

During September 22 – October 3, 2022, a second soil removal action at the Holding Tank and Leach Tank area (Figure 8) was conducted to remove approximately 1,000 cubic yards (1,712 tons) of additional petroleum-contaminated subsurface soil. Soil samples were collected using multi-incremental sampling methodology. After sampling, all excavated soil was properly disposed of at a permitted landfill. Details will be provided in a forthcoming closure plan.

5.5 Remediation Pilot Test

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

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

6.0 Sample Control Procedures

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

6.1 Sample Containers and Preservation

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

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

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

Parameter	Number/Type of Containers per Sample	Preservative	Holding Time
Natural Attenuation Parameters			
Methane	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C, and adjust to pH <2 with HCl or H_2SO_4	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
Ferrous iron	2 × 250-mL brown plastic	Field filtered, no headspace, cool to ≤6°C, HCl to pH <2	7 days
Chloride, sulfate, nitrate	1 × 250 mL plastic	Cool to ≤6°C	28 days (nitrate 48 hours)
Nitrate-nitrite	1 x 250 mL plastic	Cool to ≤6°C, H_2SO_4 to pH <2	28 days
Total Organic Carbon			
Total Organic Carbon	3 × 40-mL amber VOA vials, Teflon-lined lid or 2 × 250-mL amber glass, Teflon-lined lid	Cool to ≤6°C and adjust to pH <2 with H_2SO_4 or H_3PO_4	28 days
Metals			
Total and Dissolved Lead	2 × 250-mL HDPE containers	Cool to ≤6°C and adjust to pH <2 with HNO_3	180 days
Ethanol			
2-(2-Butoxyethoxy) ethanol	2 × 40-mL VOA vials w/ HCl, Teflon-lined septum caps	No headspace, cool to ≤6°C and adjust to pH <2 with HCl	14 days

°C degree Celsius
H_2SO_4 sulfuric acid
H_3PO_4 phosphoric acid
HCl hydrochloric acid
HDPE high-density polyethylene
HNO_3 nitric acid
L liter
mL milliliter
N/A not applicable, holding times not provided
$NaHSO_4$ sodium hydrogen sulfate
VOA volatile organic analysis
[a] *x* days / *y* days = *x* days from sample collection to extraction / *y* days for analysis of extracts following extraction

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

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

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

6.2 Chain of Custody

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

6.3 Laboratory Analytical Methods

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

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

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

Soil samples for site characterization were analyzed for the analytes specified in Section 5.3.4 using the following tests and analytical methods:

- BTEX and TPH-g by EPA Method 8260
- PAHs 1MN, 2MN, and N by EPA Method 8270
- TPH-d and TPH-o by EPA Method 3510/8015

7.0 Field Observations during Sampling

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

7.1 Soil Vapor Monitoring Observations

During this reporting period, NOI soil vapor monitoring was conducted weekly at the SVMPs located underneath the fuel tanks and weekly to monthly at the subslab SVMPs installed in the tunnel system by Adit 3 near Red Hill Shaft (see Section 5.1).

Within Adit 3, subslab soil vapor PID measurements were collected and reported monthly; the results, shown on Figure 9. Concentrations have decreased from their maximum values observed in January and February 2022.

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

7.2 Free Product Gauging and Groundwater Monitoring Well Headspace Observations

A summary of free product gauging and groundwater monitoring well headspace measurements is provided in Appendix B.2. At RHMW2254-01, the oil/water interface probe alarm indicated free product with a thickness of less than 0.01 ft during gauging on August 25, 2022. However, the presence of free product was not confirmed: as there was no observable product on the oil/water interface probe or on the surface of the water collected in the bailer; and headspace PID readings were 0.0 parts per million by volume (ppmv). A slight odor was observed and the outside of the bailer was slick and appeared “soapy.” PID readings at RHMW2254-01 were 0.3 ppmv on

August 18, 2022 and 0.1 ppmv or less for readings after August 25, 2022. At RHMW03, the oil/water interface probe alarm indicated free product with a thickness of less than 0.01 ft during gauging on August 30, 2022. Similar to RHMW2254-01, there was no observable product on the oil/water interface probe or water surface in the bailer and headspace PID readings were 0.0 ppmv. A slight odor was observed, and the outside of the bailer was slick and appeared "soapy." PID readings at RHMW03 were 0.0 ppmv on August 23, 2022 and ranged from 2.7 ppmv to 18.0 ppmv during the three subsequent events after August 30, 2022. The oil/water interface probe alarm did not sound during any other gauging events at RHMW2254-01 or RHMW03 during this reporting period.

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

Groundwater monitoring well headspace concentrations were generally low. At OWDFMW04A, a headspace PID reading of 32.4 ppmv was recorded on October 28, 2022. No free product was detected, and no odor was observed. At RHMW03, headspace readings were recorded at 18.0 ppmv on September 6, 2.7 ppmv on September 13, and 5.6 ppmv on September 20, 2022. All other readings were 1.3 ppmv or less and occurred only occasionally throughout the reporting period.

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

7.3 Groundwater Sampling Observations

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

- An organic odor was observed during most sampling events at RHMW02. Suspended flocculants were observed in most bailer pulls at RHMW02.
- Organic odors were observed intermittently at RHMW03.
- An unknown chemical odor was observed intermittently at RHMW2254-01.
- An organic decomposition odor was observed at RHMW11 during most sampling events.
- Trace amounts of suspended sediment were observed intermittently at RHMW05.

8.0 Data Quality

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

8.1 Laboratory Quality Control

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

8.1.1 Soil Vapor Samples

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

8.1.2 Groundwater Samples

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

8.2 Field Quality Control

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

Table 6: Measurement Performance Criteria – Field QC Samples

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

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

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

8.3 Data Quality Assessment

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

to a third-party data validator, ESI (Environmental Standards, Inc.) or EDS (Environmental Data Services, Ltd.), for data validation and assessment. Due to slow turnaround times at the third-party validation companies during the initial sampling events for RHP01 and RHP02, validation was conducted by AECOM chemists for samples collected through August 4, 2022. Validated data for this reporting period that are pending will be provided in the next quarterly RRR. The following summary includes results from previous reporting periods that completed full data validation during this reporting period.

8.3.1 Precision

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

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

- August 12, 2022: Detected results for ferrous iron for RHP04A were qualified as estimated (J) due to a discrepancy between the primary and field duplicate results.
- August 22, 2022: Detected results for methane for RHMW11-05 were qualified as estimate (J) due to a high RPD between the primary and confirmation column amounts.
- September 22, 2022: Detected results for chloromethane for OWDFMW08A were qualified as estimate (J) and not detected results flagged as estimate (UJ) due to a large discrepancy between the primary and field duplicate results.

8.3.2 Accuracy

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

- June 8, 2022: The TPH-g LOD for RHP02 may be higher than reported; not detected results were flagged as estimate (UJ) due to low LCS and closing CCV recovery. The detected results for TOC in RHP02 and its field duplicate were qualified as estimated with low bias (J-) because the ICV recovered low. The detected results for chloride and sulfate in RHP02 were qualified as estimated (J) because ICV criteria were not met. MS/MSDs for chloride in RHP02 also recovered lower than the acceptance limit.

- June 20, 2022: The detected results for chloride, nitrate, and sulfate in RHP01 and RHP02 were qualified as estimated (J) because ICV criteria were not met. MS/MSDs for nitrate-nitrite in RHP01 and ferrous iron in RHP02 recovered lower than the acceptance limit; not detected result for ferrous iron was flagged as estimated (UJ), and the detected result for nitrate-nitrite was flagged as estimated with low bias (J-).
- July 6, 2022: The TPH-g surrogate for RHP02 and one or more VOC surrogates for RHP01 and RHP02 recovered lower than the acceptance limits; not detected results for TPH-g and BTEX were flagged as estimated (UJ). The detected results for nitrate and sulfate in RHP01 were qualified as estimated (J) because ICV criteria were not met. The MS/MSDs for chloride in RHP01 recovered lower than the acceptance limit; the detected result was flagged as estimated with low bias (J-).
- August 10, 2022: Total lead MS/MSD %R for RHMW17, RHMW04, and RHMW08, and dissolved lead %R for OWDFMW01 and RHMW04 recovered higher than the upper acceptance limit and were flagged as estimated, biased high (J+).
- August 11–12, 2022: The detected results for TOC in RHP03 and RHP04A were qualified as estimated (J) because of noncompliant CCV results.
- August 12–15, 2022: Di-n-octyl phthalate for RHMW15-05 and RHMW13-05 may be higher than reported; not detected results were flagged as estimate (UJ) due to low internal standard area counts.
- August 17, 2022: One or more PAH surrogates for RHP01 recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).
- August 22, 2022: TPH-d/o surrogate %R for RHMW09 recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).
- August 25, 2022: MS/MSDs for TOC in RHP04A recovered above the upper acceptance limit; the detected result was flagged as estimated with high bias (J+). The CCV for alkalinity for RHP04A recovered above the upper acceptance limit; the detected result was flagged as estimated (J).
- August 29, 2022: TPH-g surrogate %R for OWDMFW05A, RHMW11-05, and RHMW14-03 recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ). Dimethyl phthalate LCS/LCSD %R for OWDFMW04A, OWDFMW04A FD, OWDFMW05A, RHMW09, RHMW11-05, RHMW14-03, and RHMW19 recovered higher than the acceptance limit; detected results were flagged as estimated, biased high (J+).
- August 30, 2022: 4-nitrophenol LCS/LCSD %R for RHMW01R, RHMW02, RHMW03, RHMW05, and OWDFMW07A recovered lower than the lowest acceptance limit, and the sample result was flagged to recommend exclusion of the data (R). TPH-g surrogate %R for OWDFMW07A and RHMW15-05 recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ). 3,3'-dichlorobenzidine MS/MSD %R for RHMW03 recovered lower than the lowest acceptance limit, and the sample result was

flagged to recommend exclusion of the data (R). Pyridine MS/MSD %R for RHMW03 recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).

- August 30–31, 2022: TPH-g surrogate and MS/MSD %R for RHMW01R, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW13-05, and OWDFMW01 recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ). Benzene, ethylbenzene, o-xylene, and total xylene surrogate %R for RHMW02 recovered higher than the acceptance limit; detected results were flagged as estimated, biased high (J+). TPH-o MSD %R for RHMW03 recovered higher than the acceptance limit; detected results were flagged as estimated, biased high (J+). TOC MS/MSD %R for RHMW08 and OWDFMW01 recovered higher than the acceptance limit; detected results were flagged as estimated, biased high (J+).
- September 1, 2022: N-nitrosodimethylamine LCS/LCSD %R for RHMW2254-01, RHMW12A, RHMW16 recovered lower than the lowest acceptance limit and sample result was flagged to recommend exclusion of the data (R). TPH-g surrogate %R for RHMW17, RHMW12A, RHMW16, RHMW2254-01, and RHP02 recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).
- September 6, 2022: SVOC acid compounds and N-nitrosodimethylamine (NDMA) for OWDFMW04A, OWDFMW04A FD, and OWDFMW05A were flagged to recommend exclusion of the data (R) due to very low surrogate or LCS/LCSD %Rs based on the method's acceptance limits. TPH-g surrogate %R for OWDFMW04A, OWDFMW04A FD, and OWDFMW05A recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).
- September 8, 2022: The TPH-g surrogate for RHP03 and RHP04A recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).
- September 9 and 12, 2022: Vinyl chloride results for RHMW13-05, RHMW15-05, and OWDFMW05A were flagged to recommend exclusion of the data (R) since LCS/LCSD %Rs recovered lower than the lowest acceptance limit. TPH-g surrogate %R for RHMW13-05, RHMW15-05, and OWDFMW05A recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).
- September 14, 2022: TPH-g for OWDFMW01 may be higher than reported; not detected results were flagged as estimate (UJ) due to low internal standard area counts.
- September 15, 2022: The SVOC acidic compounds surrogate %Rs for Adit 3 Sump recovered lower than the lowest acceptance limit and sample result was flagged to recommend exclusion of the data (R). The TPH-g surrogate for RHP02 recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).
- September 19, 2022: 4,6-dinitro-2-methylphenol and 4-nitrophenol results for OWDFMW05A, RHMW09, and RHMW17 were flagged to recommend exclusion of the data (R) since LCS/LCSD %Rs recovered lower than the lowest acceptance limit. VOC

surrogate %R for RHMW09 recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).

- September 20, 2022: 1,2-trichloroethane, ethylbenzene, o-xylene, and total xylenes surrogate %Rs for RHMW02 recovered higher than the acceptance limit; therefore, detected results were flagged as estimated, biased high (J+).
- September 22, 2022: 4-nitrophenol results for RHMW2254-01, OWDFMW08A, OWDFMW08A FD, RHMW16, and Adit 3 Sump were flagged to recommend exclusion of the data (R) since LCS/LCSD %Rs recovered lower than the lowest acceptance limit.
- September 23, 2022: Pentachlorophenol and pyridine results for RHMW04, RHMW04 FD, RHMW06, and RHMW08 were flagged to recommend exclusion of the data (R) since LCS/LCSD %Rs recovered lower than the lowest acceptance limit. Pyridine MS/MSD %R for RHMW06 recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).
- September 28, 2022: 2,4,5-trichlorophenol, 4-chloro-3-methylphenol, azobenzene, n-nitrosodimethylamine, and 4-nitrophenol MS/MSD %R for RHMW04 and RHMW04 FD recovered lower than the acceptance limit; not detected results were flagged as estimated (UJ).
- October 3, 2022: TPH-g for OWDFMW05A may be higher than reported; not detected results were flagged as estimate (UJ) due to low internal standard area counts.
- October 6, 2022: N-nitrosodimethylamine results for RHMW13-05 were flagged to recommend exclusion of the data (R) since LCS/LCSD %Rs recovered lower than the lowest acceptance limit.

Absence of headspace ensured that results for TPH-g, full suite VOCs, lead scavengers, and methane were not subjected to VOC loss. During this reporting period, five not detected methane results for monitoring wells OWDFMW05A, OWDFMW08A, RHMW2254-01, and RHMW19, along with Adit 3 Sump, were flagged as estimate (UJ) due to significant headspace (>6 millimeters). Additionally, not detected methane results for one RHMW2254-01 sample, one RHP03 sample, and one RHP04A sample were flagged as estimated (UJ) since the samples were not preserved to a pH < 2 as required by the method.

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

- September 15, 2022: TPH-g not detected results were flagged with an estimated value (UJ) for OWDFMW07A, OWDFMW08A, OWDFMW08A FD, and RHMW2254-01.
- VOC compounds including dichlorodifluoromethane, styrene, bromoform, chloroethane, styrene, cis-1,2-dichloroethene, trichloroethene, 4-chlorotoluene, 1,1-dichloroethene, dichlorodifluoromethane, trichlorofluoromethane, and/or vinyl chloride were flagged with

an estimated value (UJ) for multiple monitoring well and Adit 3 Sump results throughout the reporting period. Chloromethane detected results for RHMW13-05, RHMW15-05, and OWDFMW05A were also flagged as estimated, biased low (J-) due to high CCV %Ds and decreasing instrument sensitivity.

- Multiple SVOC compounds were qualified with an estimated value (UJ) for multiple monitoring well and Adit 3 Sump results throughout the reporting period, which include 3,3'-dichlorobenzidine, hexachloroethane, diethyl phthalate and dimethyl phthalate, 4-chlorophenyl phenyl ether, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, bis(2-chloroethyl) ether, butyl benzyl phthalate, di-n-butyl phthalate, di-n-octyl phthalate, bis(2-ethylhexyl) phthalate, pentachlorophenol, hexachlorobutadiene, 2-chlorophenol, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 2-nitrophenol, bis(2-chloroethoxy)methane, n-nitrosodimethylamine, n-nitrosodi-n-propylamine, hexachloroethane, isophorone, trichlorophenol, trichlorobenzene, and 4-nitrophenol.

Additionally, sample results from monitoring wells RHMW02, RHMW03, RHMW09, RHMW12A, RHMW13-05, RHMW14-03, RHMW15-05, RHMW19, OWDFMW04A, OWDFMW04A FD, OWDFMW05A were recommended for exclusion due to very low %Rs or high CCV %Ds in associated QC samples for SVOC compounds, such as hexachlorobutadiene, hexachlorocyclopentadiene, hexachloroethane, 2,4-dinitrophenol, and 4,6-dinitro-2-methylphenol.

SVOC compounds are subject to high variability, particularly if the instrument is contaminated with high-boiling-point compounds. Pyridine can also undergo loss during sample preparation. Additionally, compounds such as n-nitrosodimethylamine distribute poorly into the extraction solvent, particularly with Method 3510. Poor recoveries may also indicate that the matrix is suppressing the signal.

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

8.3.3 Representativeness

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

During the NOI sampling rounds for this quarter:

- Groundwater samples were collected in accordance with procedures described in the DOH-approved *AOC Statement of Work Sections 6 and 7, Work Plan/Scope of Work* (DON 2017a) and the associated project *Sampling and Analysis Plan* and addenda (DON 2017b; 2017c; 2017d), including standardized sample collection methods identified in NAVFAC

Pacific Environmental Restoration Program Project Procedure I-C-3, *Monitoring Well Sampling* (DON 2015):

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

- Groundwater samples from wells that are screened across the water table were collected with a bailer, based on DOH's request:[1]
  - Sampling with a bailer was requested to collect water at the groundwater/air interface along with any potential LNAPL that may be present. Sampling with a bailer may introduce air and turbulence to the sample, which may volatilize VOCs in the groundwater matrix. The bailer technique is also less repeatable and therefore adds a degree of variability into the results, which may be less representative of actual conditions at the water table.
  - In addition, DOH requested no purging be associated with this method; therefore, the methodology is likely to be affected by any localized equilibrium within the well and filter pack, and the results may not represent water flowing through the aquifer.
  - This methodology is contrary to the DOH TGM (DOH 2021c), which "recommends that low-flow purging and sampling approaches be utilized whenever feasible in order to improve the representativeness of the sample data."

Samples were collected at RHMW2254-01 using both a bailer and low-flow pump. The results are presented in Appendix B.4. The TPH-d and TPH-o data, summarized in Table 7, indicate that the bailer sampling methodology results in higher reported concentrations, particularly in the TPH-o analyses. Variability may be attributed to the collection of the bailer sample from the water surface versus the collection of the low-flow sample from the submerged pump intake. Comparison of the bailer and low-flow sampling results is complicated by the low concentrations being reported and the different reporting levels used by the laboratory; results may be partially explained by the potential presence of residual material on the water surface in the water development tunnel. In any case, as stated in the DOH TGM (DOH 2021c), the low-flow sampling results after purging is more "representative of water in the surrounding [aquifer] formation."

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

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

Sample Date	TPH-d (µg/L)			TPH-o (µg/L)		
	Bailer	Low-Flow Pump	RPD (%)	Bailer	Low-Flow Pump	RPD (%)
8/11/2022	100 U	100 U	—	300 U	310 U	—
8/18/2022	100 U	pending	N/A	300 U	pending	N/A
9/1/2022	100 U	100 U	—	320 U	300 U	—
9/15/2022	100 U	100 U	—	310 U	310 U	—
9/22/2022	100 U	100 U	—	310 U	300 U	—

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

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

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

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

- TPH-g: Five collection events from RHMW02, RHMW03, RHMW05, RHMW19, OWDFMW04A, OWDFMW04A FD, OWDFMW07A
- Phenol: Two collection events from RHMW04, RHMW04 FD, RHMW09, RHMW17, OWDFMW08A and OWDFMW08A FD
- Chloromethane: Eight collection events from RHMW2254-01, RHMW06, RHMW04. RHMW04 FD, RHMW08, RHMW09, RHMW12A, RHMW19, OWDFMW04A, OWDFMW04A FD, and Adit 3 Sump
- Styrene, o-xylene, and total xylene: Two collection events from RHMW02, RHMW03, RHMW05, OWDFMW04A, and OWDFMW04A FD
- Total and dissolved lead: Two collection events from RHMW04, RHMW06, RHMW08, RHMW19, OWDFMW01 FD, and OWDFMW05A.
- TOC: One collection event from RHMW09, RHMW11-05, RHMW14-03, RHMW19, OWDFMW05A, and RHP02
- Methane: One collection event from OWDFMW04A

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

- Chloromethane: Three collection events from RHMW2254-01 and Adit 3 Sump
- Total and dissolve lead: Three collection events from RHMW2254-01, RHMW04, RHMW08, RHMW17, OWDFMW01, and Adit 3 Sump
- Phenol: One collection event from RHMW06
- Benzene: One collection event from RHMW11-05, RHMW14-03, and RHMW15-05
- TOC: One collection event each from OWDFMW04A and RHP01
- O-xylene and total xylene: One collection event from RHMW02
- Dimethyl phthalate: One collection event from RHMW09, RHMW11-05, RHMW14-03, RHMW19, OWDFMW04A, OWDFMW04A FD, and OWDFMW05A

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

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

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

SDG	Client Sample ID	Sample Type	Sampling Date	Test Method	Analyte	CAS	Validated Result	Qualifier	LOQ	LOD	DL	Unit
5801169241	RHMW2254-01-FB01B-2208WK2	FB	8/11/2022 1:10:00 PM	SW8260D	Chloromethane	74-87-3	**0.190**	**J**	0.5	0.35	0.14	µg/L
5801169241	ADIT3-SUMP-FB01B-2208WK2	FB	8/11/2022 2:55:00 PM	SW8260D	Chloromethane	74-87-3	**0.240**	**J**	0.5	0.35	0.14	µg/L
5801169241	ADIT3-SUMP-EB01B-2208WK2	EB	8/11/2022 3:00:00 PM	SW8260D	Chloromethane	74-87-3	**0.500**		0.5	0.35	0.14	µg/L
5801170321	RHMW12A-EB01LF-2208WK3	EB	8/16/2022 12:15:00 PM	SW8260D	Chloromethane	74-87-3	**0.180**	**J**	0.5	0.35	0.14	µg/L
5801171501	RHMW2254-01-FB01B-2208WK3	FB	8/18/2022 11:55:00 AM	SW8260D	Chloromethane	74-87-3	**0.380**	**J**	0.5	0.35	0.14	µg/L
5801174081	RHMW09-FB01B-2208WK5	FB	8/29/2022 9:15:00 AM	SW8270E	Dimethyl phthalate	131-11-3	**0.200**	**J**	0.57	0.14	0.057	µg/L
5801174861	RHMW03-EB01B-2208WK5	EB	8/30/2022 1:45:00 PM	SW8270E	Dimethyl phthalate	131-11-3	**0.0800**	**J**	0.58	0.14	0.058	µg/L
5801174861	RHMW03-FB01B-2208WK5	FB	8/30/2022 1:50:00 PM	SW8270E	Dimethyl phthalate	131-11-3	**0.550**	**J**	0.57	0.14	0.057	µg/L
5801175961	RHMW2254-01-FB01B-2208WK5	FB	9/1/2022 9:50:00 AM	SW8260D	Chloromethane	74-87-3	**0.170**	**J**	0.5	0.35	0.14	µg/L
5801181531	RHMW14-03-FB01G-2209WK3	FB	9/20/2022 8:25:00 AM	SW8260D	o-Xylene	95-47-6	**0.220**	**J**	0.5	0.35	0.15	µg/L
5801181531	RHMW14-03-FB01G-2209WK3	FB	9/20/2022 8:25:00 AM	SW8260D	Styrene	100-42-5	**0.330**	**J**	1	0.5	0.19	µg/L
5801181531	RHMW14-03-FB01G-2209WK3	FB	9/20/2022 8:25:00 AM	SW8260D	Xylenes, Total	1330-20-7	**0.220**	**J**	0.5	0.35	0.15	µg/L
5801181531	RHMW14-03-EB01G-2209WK3	EB	9/20/2022 8:30:00 AM	SW8260D	o-Xylene	95-47-6	**0.220**	**J**	0.5	0.35	0.15	µg/L
5801181531	RHMW14-03-EB01G-2209WK3	EB	9/20/2022 8:30:00 AM	SW8260D	Styrene	100-42-5	**0.330**	**J**	1	0.5	0.19	µg/L
5801181531	RHMW14-03-EB01G-2209WK3	EB	9/20/2022 8:30:00 AM	SW8260D	Xylenes, Total	1330-20-7	**0.220**	**J**	0.5	0.35	0.15	µg/L
5801182481	ADIT3-SUMP-FB01B-2209WK3	FB	9/22/2022 10:45:00 AM	SW8260D	Chloromethane	74-87-3	**0.190**	**J**	0.5	0.35	0.14	µg/L
5801182431	RHMW12A-EB01LF-2209WK3	EB	9/22/2022 10:50:00 AM	SW8260D	cis-1,3-Dichloropropene	10061-01-5	**0.100**	**J**	0.2	0.15	0.09	µg/L
5801182481	ADIT3-SUMP-EB01B-2209WK3	EB	9/22/2022 10:50:00 AM	SW8260D	Chloromethane	74-87-3	**0.800**		0.5	0.35	0.14	µg/L
5801182431	RHMW2254-01-FB01B-2209WK3	FB	9/22/2022 12:10:00 PM	SW8260D	Chloromethane	74-87-3	**0.330**	**J**	0.5	0.35	0.14	µg/L
5801183441	RHMW03-EB01B-2209WK4	EB	9/27/2022 2:05:00 PM	BNASIME	Acenaphthene	83-32-9	**0.0150**	**J**	0.095	0.03	0.013	µg/L

SDG	Client Sample ID	Sample Type	Sampling Date	Test Method	Analyte	CAS	Validated Result	Qualifier	LOQ	LOD	DL	Unit
5801183441	RHMW03-EB01B-2209WK4	EB	9/27/2022 2:05:00 PM	BNASIME	Naphthalene	91-20-3	**0.0860**	**J**	0.095	0.076	0.029	µg/L

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

EB equipment blank
FB field blank
GW groundwater
J detected at a concentration less than the LOQ
B detected in an associated method blank
ID identification
ND not detected

All samples were associated with a trip blank and laboratory calibration, preparation, or extraction blanks. Although equipment and field blanks were detected for chrysene and phthalates, the associated field samples were not detected. SVOC and PAH results for this reporting period were not impacted by laboratory or field blank contamination.

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

- June 8, 2022: The detected result for nitrate for RHP04A was qualified as estimated with low bias (J-) due to analysis beyond the 48-hour holding time. Detected result for ferrous iron for RHP02 was qualified as estimated with low bias (J-) due to analysis beyond the 7-day holding time.
- July 6, 2022: The detected result for ferrous iron for RHP01 was qualified as estimated with low bias (J-) due to analysis beyond the 7-day holding time.
- August 9, 2022: TPH-d/o not detected results for RHMW05 and RHMW16 were flagged with an estimated qualifier (UJ) since samples were prepared 6 days outside the 7-day holding time.
- August 12, 2022: The detected result for nitrate for RHP04A was qualified as estimated with low bias (J-) due to analysis beyond the 48-hour holding time.
- August 25, 2022: Detected results for TPH-d and TPH-o were qualified as estimated with low bias (J-) and not detected results were qualified as estimated (UJ) for RHP03 and RHP04A due to extraction beyond the 7-day holding time.
- September 14, 2022: Hexachlorocyclopentadiene, hexachlorobutadiene, and hexachloroethane not detected results for OWDFMW01, RHMW17, RHMW06, RHMW08, RHMW13-05, and RHMW04 were flagged with an estimated qualifier (UJ) since samples were prepared 6 days outside the 7-day holding time.
- September 19, 2022: 2,4,5-trichlorophenol, 2,4-dichlorophenol, 2-chlorophenol, and 2 nitrophenol not detected results for OWDFMW05A, RHMW19, and RHMW09 were flagged with an estimated qualifier (UJ) since samples were prepared 3 days outside the 7-day holding time.

Lastly, sample temperatures were received greater than the recommended > 6°C but ≤ 15ºC and were flagged accordingly:

- August 1, 2022: Not detected results for all COPCs were qualified as estimated (UJ) since samples were received at a temperature of 6.4°C upon arrival at the laboratory.
- August 29, 2022: Methane results for OWDFMW05A and RHMW09 were flagged as estimated, biased low (J-) since samples were received at an elevated temperature (> 6°C but < 15°C).

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

8.3.4 Completeness

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

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

8.3.5 Comparability

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

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

8.3.6 Sensitivity

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

8.4 Conclusions

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

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

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

9.0 Analytical Results

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

9.1 Soil Vapor Analytical Results

9.1.1 Below-Tank Sampling Locations

9.1.1.1 FIELD MEASUREMENTS

Cumulative AOC soil vapor measurements collected under the fuel storage tanks are provided in Appendix A.1, NOI soil vapor measurements are provided in Appendix A.2, and chromatograms for Summa canister samples collected under Tanks 15, 17, 18, and 20 are provided in Appendix A.3. All results were below 10,000 parts per billion by volume (ppbv), compared to readings above 100,000 ppbv at SV17S, 18S, and 20M in May and June 2021.

9.1.1.2 FIXED-BASE LABORATORY MEASUREMENTS

Soil vapor analytical data reports for Summa canister samples collected underneath the fuel storage tanks are indexed in Appendix C. The following subsections present analytical results for soil vapor samples, including VOCs, carbon dioxide, oxygen, and methane.

Individual VOCs by Method TO-15. The measured concentration of individual VOCs serves to identify those VOCs most characteristic of the May 2021 Release. Of the petroleum hydrocarbons on the TO-15 reporting list, only the following five hydrocarbons have been detected to date at a concentration above 1,000 micrograms per cubic meter ($\mu g/m^3$):

- Ethylbenzene
- Total xylenes
- 4-Ethyltoluene
- 1,3,5-Trimethylbenzene
- 1,2,4-Trimethylbenzene

No other hydrocarbons were detected above 200 µg/m^3. Thus, these five petroleum VOCs appear to be most characteristic of the release. No individual hydrocarbons were measured at concentrations above 10 µg/m^3 during the sampling events (i.e., July, August, and September 2022) covered by this reporting period. The below-tank SVMP samples were analyzed by Enthalpy Analytical in Orange, California.

Total VOCs by Method TO-3. The laboratory results for the July, August, and September 2022 Summa canister samples continued to show that the total VOC concentrations (C5–C12) by Method TO-3 were low (1.2 ppmv or less) compared to values measured shortly after the May 2021 Release (up to 150 ppmv).

Comparison of Total VOCs by Method TO-3 to Field Measurements by PID. The high bias in field PID readings compared to total VOCs (C5–C12) by laboratory method TO-3 has been described in prior quarterly RRRs based on monitoring results through September 2021. Monitoring results covered by this reporting period continue to show a high bias in PID readings compared to total VOCs (C5–C12) by laboratory method TO-3. As result of this bias, PID readings provide a conservative indication of subsurface conditions.

Carbon Dioxide, Oxygen, and Methane. The soil vapor samples collected from the SVMPs located beneath the fuel storage tanks all exhibited high oxygen (i.e., generally 20–22 percent oxygen), low carbon dioxide (<0.2–1.5 percent), and non-detect methane (<0.2 percent). These results are indicative of subsurface conditions that promote biodegradation These results are comparable to oxygen, carbon dioxide, and methane concentrations measured in those locations in 2017 (DON 2019, Appendix B.3).

9.1.2 Adit 3 Tunnel Sampling Locations

9.1.2.1 Field Measurements

SVMPs in the Adit 3 Tunnel were monitored weekly to monthly during this reporting period. Figure 9 shows the results of soil vapor monitoring from subslab SVMPs installed in the floor of the Adit 3 and Pearl Harbor Tunnels since December 17, 2021. The origin for the Adit 3 Tunnel (A3) is at the eastern edge of the Water Pumping Station doorway; coordinates are in ft and are positive (+) to the west and negative (-) to the east. The origin for the Pearl Harbor Tunnel (2S) is at the Adit 3 merge centerline, and coordinates are positive (+) to the south.

As shown on Figure 9, the results showed fluctuations over time on top of an overall decrease in concentrations measured since the commencement of monitoring in December 2021.

9.1.2.2 Fixed-Base Laboratory Measurements

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

9.2 Free Product Gauging and Groundwater Monitoring Well Headspace Measurements

Free product gauging results and groundwater monitoring well headspace measurements collected through November 4, 2022 are presented in Appendix B.2. Free product was not detected at any monitoring location during this reporting period except as described in Section 7.2.

9.3 Groundwater Analytical Results

Groundwater samples were analyzed for the parameters and methods described in Section 6.0. The sampling events covered in this report include those occurring within the current reporting period for which Level II and Level IV data packages have been issued and validated. Summary statistics for all groundwater samples completing validation during the current reporting period are described below and provided in Table 9 (NOI wells) and Table 10 (delineation wells). Appendix B.4 provides the historical groundwater monitoring well results compared to the EALs for each analyte group. Additionally, TPH results collected during the reporting period are graphically displayed over time in Appendix B.4.5. Final Level II and IV analytical reports and data validation reports are indexed in Appendix D.

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

Table 9: Summary of Groundwater Analytical Results for Current Reporting Period (8/7/2022 to 11/4/2022)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect [2]	Location of Maximum Detect [2]	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criteria	Number of Exceedances	Exceedance Frequency
TPH and Fuel Related Compounds																
TPH-g (Eurofins Labs)	PHCC6C10	8260/CALUFT DOD	µg/L	132	129	3	2.3%	34	J	39	J	RHMW02	RHMW02	300	0	0.0%
TPH-d (Eurofins Labs)	PHCC10C24	8015DM	µg/L	132	116	16	12.1%	66	J	4000		RHMW05	RHMW02	400	5	3.8%
TPH-d (Eurofins Labs) with Silica Gel Cleanup	PHCC10C24SGC	8015DM	µg/L	16	8	8	50.0%	76	J	1100		RHMW17	RHMW02	—	0	0.0%
TPH-o (Eurofins Labs)	PHCC24C40	8015DM	µg/L	132	124	8	6.1%	180	J	640		RHMW03	RHMW03	500	1	0.8%
TPH-o (Eurofins Labs) with Silica Gel Cleanup	PHCC24C40SGC	8015DM	µg/L	16	15	1	6.3%	370		370		RHMW02	RHMW02	—	0	0.0%
Total Organic Carbon	—	—	µg/L	116	37	79	68.1%	380	J	9200		RHMW11-05	RHMW02	—	0	0.0%
1,2-Dibromoethane	106-93-4	8011	µg/L	116	116	0	0.0%	ND		ND		—	—	0.04	0	0.0%
Methane	74-82-8	SW8015M	µg/L	116	98	18	15.5%	0.63	J	5400		RHMW11-05	RHMW02	—	0	0.0%

Table 9: Summary of Groundwater Analytical Results for Current Reporting Period (8/7/2022 to 11/4/2022) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect [2]	Location of Maximum Detect [2]	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criteria	Number of Exceedances	Exceedance Frequency
BTEX, Full Suite VOCs, and Lead																
Benzene	71-43-2	8260B	µg/L	132	130	2	1.5%	0.034	J	0.036	J	RHMW02	RHMW02	5	0	0.0%
Ethylbenzene	100-41-4	8260B	µg/L	132	128	4	3.0%	0.067	J	0.28	J	RHMW02	RHMW02	30	0	0.0%
Toluene	108-88-3	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	40	0	0.0%
Xylenes	1330-20-7	8260B	µg/L	132	128	4	3.0%	0.15	J	0.41	J	RHMW05	RHMW02	20	0	0.0%
Bromobenzene	108-86-1	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
Bromochloromethane	74-97-5	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
Bromodichloromethane	75-27-4	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	0.14	0	0.0%
Bromoform	75-25-2	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	80	0	0.0%
Carbon tetrachloride	56-23-5	8260B	µg/L	132	119	13	9.8%	0.054	J	0.067	J	OWDFMW04A	OWDFMW04A	5	0	0.0%
Chlorobenzene	108-90-7	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	25	0	0.0%
Chlorodibromomethane	124-48-1	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	0.93	0	0.0%
Chloroethane	75-00-3	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	16	0	0.0%
Chloroform	67-66-3	8260B	µg/L	132	97	35	26.5%	0.034	J	3.8		RHMW06	OWDFMW04A	28	0	0.0%
Chloromethane	74-87-3	8260B	µg/L	132	101	31	23.5%	0.14	J	0.75		RHMW12A	RHMW16	190	0	0.0%
1,2-Dibromoethane	106-93-4	8011	µg/L	116	116	0	0.0%	ND		ND		—	—	0.04	0	0.0%
2-Chlorotoluene	95-49-8	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
4-Chlorotoluene	106-43-4	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
Dibromomethane	74-95-3	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
1,2-Dichlorobenzene	95-50-1	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	10	0	0.0%
1,3-Dichlorobenzene	541-73-1	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	5	0	0.0%
1,4-Dichlorobenzene	106-46-7	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	5	0	0.0%
Dichlorodifluoromethane	75-71-8	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
1,1-Dichloroethane	75-34-3	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	2.8	0	0.0%
1,2-Dichloroethane	107-06-2	8260B	µg/L	132	130	2	1.5%	0.085	J	0.19	J	RHMW17	RHMW17	5	0	0.0%
1,1-Dichloroethene	75-35-4	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	7	0	0.0%
cis-1,2-Dichloroethene	156-59-2	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	70	0	0.0%
trans-1,2-Dichloroethene	156-60-5	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	100	0	0.0%
1,2-Dichloropropane	78-87-5	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	5	0	0.0%
1,3-Dichloropropane	142-28-9	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
2,2-Dichloropropane	594-20-7	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
1,1-Dichloropropene	563-58-6	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
cis-1,3-Dichloropropene	10061-01-5	8260B	µg/L	132	131	1	0.8%	0.1	J	0.1	J	RHMW04	RHMW04	—	0	0.0%
trans-1,3-Dichloropropene	10061-02-6	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
Methyl ethyl ketone	78-93-3	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	5600	0	0.0%
Methyl tert-butyl ether (MTBE)	1634-04-4	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	5	0	0.0%
Methylene chloride	75-09-2	8260B	µg/L	132	131	1	0.8%	1.4	J	1.4	J	OWDFMW05A	OWDFMW05A	5	0	0.0%
Styrene	100-42-5	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	10	0	0.0%
1,1,1,2-Tetrachloroethane	630-20-6	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	0.61	0	0.0%
1,1,2,2-Tetrachloroethane	79-34-5	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	0.078	0	0.0%
Tetrachloroethene	127-18-4	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	5	0	0.0%
1,1,1-Trichloroethane	71-55-6	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	11	0	0.0%
1,1,2-Trichloroethane	79-00-5	8260B	µg/L	132	131	1	0.8%	0.29	J	0.29	J	RHMW02	RHMW02	5	0	0.0%
Trichloroethene	79-01-6	8260B	µg/L	129	129	0	0.0%	ND		ND		—	—	5	0	0.0%
Trichlorofluoromethane	75-69-4	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
1,2,3-Trichloropropane	96-18-4	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	0.6	0	0.0%
Vinyl chloride	75-01-4	8260B	µg/L	129	129	0	0.0%	ND		ND		—	—	2	0	0.0%
m+p-Xylenes	179601-23-1	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
o-Xylene	95-47-6	8260B	µg/L	132	128	4	3.0%	0.15	J	0.41	J	RHMW05	RHMW02	—	0	0.0%
Lead	7439-92-1	SW6020	µg/L	116	69	47	40.5%	0.04	J	1.8		RHMW14-03	RHMW05	5.6	0	0.0%
Dissolved Lead	7439-92-1	SW6020	µg/L	116	68	48	41.4%	0.04	J	0.81		OWDFMW04A	RHMW19	—	0	0.0%

Table 9: Summary of Groundwater Analytical Results for Current Reporting Period (8/7/2022 to 11/4/2022) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect [2]	Location of Maximum Detect [2]	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criteria	Number of Exceedances	Exceedance Frequency
SVOCs																
1,2,4-Trichlorobenzene	120-82-1	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	70	0	0.0%
1,2-Dichlorobenzene	95-50-1	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	10	0	0.0%
1,3-Dichlorobenzene	541-73-1	8260B	µg/L	132	132	0	0.0%	ND		ND		—	—	5	0	0.0%
1,4-Dichlorobenzene	106-46-7	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	5	0	0.0%
2,4,5-Trichlorophenol	95-95-4	SW8270C	µg/L	131	131	0	0.0%	ND		ND		—	—	1.9	0	0.0%
2,4,6-Trichlorophenol	88-06-2	SW8270C	µg/L	131	131	0	0.0%	ND		ND		—	—	4.9	0	0.0%
2,4-Dichlorophenol	120-83-2	SW8270C	µg/L	131	131	0	0.0%	ND		ND		—	—	0.3	0	0.0%
2,4-Dimethylphenol	105-67-9	SW8270C	µg/L	131	131	0	0.0%	ND		ND		—	—	120	0	0.0%
2,4-Dinitrophenol	51-28-5	SW8270C	µg/L	122	122	0	0.0%	ND		ND		—	—	14	0	0.0%
2,4-Dinitrotoluene	121-14-2	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	0.25	0	0.0%
2,6-Dinitrotoluene	606-20-2	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	0.05	0	0.0%
2-Chloronaphthalene	91-58-7	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
2-Chlorophenol	95-57-8	SW8270C	µg/L	131	131	0	0.0%	ND		ND		—	—	0.18	0	0.0%
2-Nitrophenol	88-75-5	SW8270C	µg/L	131	131	0	0.0%	ND		ND		—	—	—	0	0.0%
3,3′-Dichlorobenzidine	91-94-1	SW8270C	µg/L	131	131	0	0.0%	ND		ND		—	—	0.17	0	0.0%
4,6-Dinitro-2-methylphenol	534-52-1	SW8270C	µg/L	127	127	0	0.0%	ND		ND		—	—	—	0	0.0%
4-Bromophenyl phenyl ether	101-55-3	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
4-Chloro-3-methylphenol	59-50-7	SW8270C	µg/L	131	131	0	0.0%	ND		ND		—	—	—	0	0.0%
4-Chlorophenyl phenyl ether	7005-72-3	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
4-Nitrophenol	100-02-7	SW8270C	µg/L	119	119	0	0.0%	ND		ND		—	—	—	0	0.0%
Azobenzene	103-33-3	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
bis(-2-chloroethoxy)Methane	111-91-1	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
bis(-2-chloroethyl)Ether	111-44-4	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	0.014	0	0.0%
bis(2-chloroisopropyl)Ether	108-60-1	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
bis(2-ethylhexyl)Phthalate	117-81-7	SW8270C	µg/L	132	130	2	1.5%	1.7	J	3.8		RHMW19	RHMW17	3	1	0.8%
Butylbenzylphthalate	85-68-7	SW8270C	µg/L	132	131	1	0.8%	0.28	J	0.28	J	RHMW11-05	RHMW11-05	—	0	0.0%
Di-n-butyl phthalate	84-74-2	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
Di-n-octyl phthalate	117-84-0	SW8270C	µg/L	132	131	1	0.8%	0.19	J	0.19	J	RHMW17	RHMW17	—	0	0.0%
Diethyl phthalate	84-66-2	SW8270C	µg/L	132	131	1	0.8%	0.83	J	0.83	J	RHMW17	RHMW17	210	0	0.0%
Dimethyl phthalate	131-11-3	SW8270C	µg/L	132	123	9	6.8%	0.067	J	1.6	J	RHMW04	RHMW11-05	1100	0	0.0%
Hexachlorobenzene	118-74-1	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	0.0003	0	0.0%
Hexachlorobutadiene	87-68-3	SW8270C	µg/L	124	124	0	0.0%	ND		ND		—	—	0.2	0	0.0%
Hexachlorocyclopentadiene	77-47-4	SW8270C	µg/L	119	119	0	0.0%	ND		ND		—	—	—	0	0.0%
Hexachloroethane	67-72-1	SW8270C	µg/L	124	124	0	0.0%	ND		ND		—	—	0.4	0	0.0%
Isophorone	78-59-1	SW8270C	µg/L	132	130	2	1.5%	0.1	J	0.12	J	RHMW14-03	RHMW11-05	82	0	0.0%
m+p-Cresols	15831-10-4	SW8270C	µg/L	131	130	1	0.8%	0.14	J	0.14	J	RHMW03	RHMW03	—	0	0.0%
n-Nitroso-di-n-propylamine	621-64-7	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
n-Nitrosodimethylamine	62-75-9	SW8270C	µg/L	124	124	0	0.0%	ND		ND		—	—	—	0	0.0%
n-Nitrosodiphenylamine	86-30-6	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	—	0	0.0%
Nitrobenzene	98-95-3	SW8270C	µg/L	132	132	0	0.0%	ND		ND		—	—	0.14	0	0.0%
o-Cresol	95-48-7	SW8270C	µg/L	131	126	5	3.8%	0.08	J	0.19	J	RHMW04	RHMW06	—	0	0.0%
Pentachlorophenol	87-86-5	SW8270C	µg/L	127	127	0	0.0%	ND		ND		—	—	1	0	0.0%
Phenol	108-95-2	SW8270C	µg/L	131	130	1	0.8%	0.67	J	0.67	J	RHMW06	RHMW06	58	0	0.0%
Pyridine	110-86-1	SW8270C	µg/L	128	128	0	0.0%	ND		ND		—	—	—	0	0.0%

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Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect [2]	Location of Maximum Detect [2]	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criteria	Number of Exceedances	Exceedance Frequency
PAHs																
1-Methylnaphthalene	90-12-0	8270D SIM	µg/L	132	127	5	3.8%	10		32		RHMW02	RHMW02	10	5	3.8%
2-Methylnaphthalene	91-57-6	8270D SIM	µg/L	132	127	5	3.8%	0.54		19		RHMW02	RHMW02	10	2	1.5%
Naphthalene	91-20-3	8270D SIM	µg/L	132	125	7	5.3%	0.11		42		RHMW01R	RHMW02	17	2	1.5%
Acenaphthene (SIM)	83-32-9	8270SIM	µg/L	132	125	7	5.3%	0.026	J	0.29		RHMW01R	RHMW02	15	0	0.0%
Acenaphthylene (SIM)	208-96-8	8270SIM	µg/L	132	129	3	2.3%	0.05		0.19		RHMW02	RHMW02	13	0	0.0%
Anthracene (SIM)	120-12-7	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	0.02	0	0.0%
Benzo(a)anthracene (SIM)	56-55-3	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	0.027	0	0.0%
Benzo(a)pyrene (SIM)	50-32-8	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	0.06	0	0.0%
Benzo(b)fluoranthene (SIM)	205-99-2	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	0.22	0	0.0%
Benzo(g,h,i)perylene (SIM)	191-24-2	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	0.13	0	0.0%
Benzo(k)fluoranthene (SIM)	207-08-9	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	0.4	0	0.0%
Chrysene (SIM)	218-01-9	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	1	0	0.0%
Dibenzo(a,h)anthracene (SIM)	53-70-3	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	0.022	0	0.0%
Fluoranthene (SIM)	206-44-0	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	0.8	0	0.0%
Fluorene (SIM)	86-73-7	8270SIM	µg/L	132	126	6	4.5%	0.016	J	0.17		RHMW01R	RHMW02	3.9	0	0.0%
Indeno(1,2,3-cd)pyrene (SIM)	193-39-5	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	0.095	0	0.0%
Phenanthrene (SIM)	85-01-8	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	2.3	0	0.0%
Pyrene (SIM)	129-00-0	8270SIM	µg/L	132	132	0	0.0%	ND		ND		—	—	4.6	0	0.0%

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

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

[a] Includes normal and field duplicate samples.

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

[c] Wells sampled during this reporting period include the following: OWDFMW01, OWDFMW04A, OWDFMW05A, OWDFMW07A, OWDFMW08A, RHMW01R, RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, RHMW11-05, RHMW12A, RHMW13-05, RHMW14-03, RHMW15-05, RHMW16, RHMW17, RHMW19, and RHMW2254-01.

Table 10: Summary of Delineation Well Analytical Results for Current Reporting Period (through 11/4/2022)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect [2]	Location of Maximum Detect [2]	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criteria	Number of Exceedances	Exceedance Frequency
TPH																
C6-C10 Gasoline Range Organics	PHCC6C10	8260/CALUFT DOD	µg/L	29	29	0	0.0%	ND		ND		--	--	300	0	0.0%
C10-C24 Petroleum Hydrocarbons	PHCC10C24	8015D	µg/L	29	28	1	3.4%	91	J-	91	J-	RHP04A	RHP04A	400	0	0.0%
C24-C40 Petroleum Hydrocarbons	PHCC24C40	8015D	µg/L	29	29	0	0.0%	ND		ND		--	--	500	0	0.0%
BTEX																
Benzene	71-43-2	8260D	µg/L	29	29	0	0.0%	ND		ND		--	--	5	0	0.0%
Ethylbenzene	100-41-4	8260D	µg/L	29	29	0	0.0%	ND		ND		--	--	30	0	0.0%
m,p-Xylene	--	8260D	µg/L	29	29	0	0.0%	ND		ND		--	--	NA	--	--
o-Xylene	95-47-6	8260D	µg/L	29	29	0	0.0%	ND		ND		--	--	NA	--	--
Toluene	108-88-3	8260D	µg/L	29	29	0	0.0%	ND		ND		--	--	40	0	0.0%
Xylenes, Total	1330-20-7	8260D	µg/L	29	29	0	0.0%	ND		ND		--	--	20	0	0.0%
PAHs																
1-Methylnaphthalene	90-12-0	8270E SIM	µg/L	29	29	0	0.0%	ND		ND		--	--	10	0	0.0%
2-Methylnaphthalene	91-57-6	8270E SIM	µg/L	29	29	0	0.0%	ND		ND		--	--	10	0	0.0%
Naphthalene	91-20-3	8270E SIM	µg/L	29	29	0	0.0%	ND		ND		--	--	17	0	0.0%
Natural Attenuation Parameters																
Methane	--	RSK175	µg/L	9	7	2	22.2%	0.67	J	0.81	J	RHP03	RHP03	NA	--	--
Alkalinity, Bicarbonate (as CaCO3)	--	A2320B	µg/L	10	0	10	100.0%	130000		190000		RHP01	RHP02	NA	--	--
Alkalinity, Carbonate (as CaCO3)	--	A2320B	µg/L	10	10	0	0.0%	ND		ND		--	--	NA	--	--
Alkalinity, Total (as CaCO3)	--	A2320B	µg/L	10	0	10	100.0%	130000		190000		RHP01	RHP02	NA	--	--
Chloride	--	EPA 300	µg/L	10	0	10	100.0%	77000	J-	240000		RHP01	RHP03	NA	--	--
Iron, Ferrous	--	A3500B	µg/L	10	2	8	80.0%	25	J	97	J	RHP03	RHP03	NA	--	--
Nitrate (as N)	--	EPA 300	µg/L	10	0	10	100.0%	660		1000	J	RHP03	RHP01	NA	--	--
Nitrate-Nitrite (as N)	--	EPA 353.2	µg/L	10	0	10	100.0%	700		1100		RHP03	RHP01	NA	--	--
Sulfate	--	EPA 300	µg/L	10	0	10	100.0%	38000		87000	J	RHP04A	RHP02	NA	--	--
Total Organic Carbon	--	SW9060A	µg/L	10	1	9	90.0%	740	J	1300	J+	RHP03	RHP01	NA	--	--

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

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

[a] Includes normal and field duplicate samples.

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

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

9.3.1 TPH-g

TPH-g was detected only at RHMW02, in which concentrations were stable and within historical ranges (34–39 µg/L). No EAL exceedances were reported. Additionally, no TPH-g detections were reported from the BWS Split sampling events.

9.3.2 TPH-d

Exceedances detected from monitoring wells during the reporting period are summarized in Table 9 and depicted on Figure 10. Exceedances were reported at in-tunnel well RHMW02 (which consistently exceeds EALs). The maximum detected concentration for TPH-d in this well was 4,000 µg/L. TPH-d was detected at in-tunnel wells RHMW01R, RHMW03, RHMW05, and one outlying well RHMW17.

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

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

- TPH-d concentrations at in-tunnel well RHMW02 appear to be stable, with historically consistent EAL exceedances.
- TPH-d concentrations at in-tunnel wells RHMW01R, RHMW03, and RHMW05 appear to be stable and did not exceed the EAL.
- TPH-d was detected in one sample (100 µg/L) at outlying well RHMW17, but there were no detections is subsequent samples from this well.
- TPH-d detections at RHMW2254-01 (Red Hill Shaft) had consistent exceedances following the November 2021 Release and have since decreased to no exceedance during this reporting period; the remaining sampling events reported were not detected for TPH-d.

At the delineation wells, one estimated detection of TPH-d below the LOD occurred at RHP04A on August 25, 2022; however, the concentration (91 µg/L) did not exceed the EAL. No TPH-d was detected in subsequent RHP04A samples collected on September 8, September 20, and October 14, 2022. No other TPH-d detections were reported in the delineation wells this reporting period. Additionally, no TPH-d detections were reported from the BWS split sampling events (Appendix B.4.7).

TPH-d Sample Results

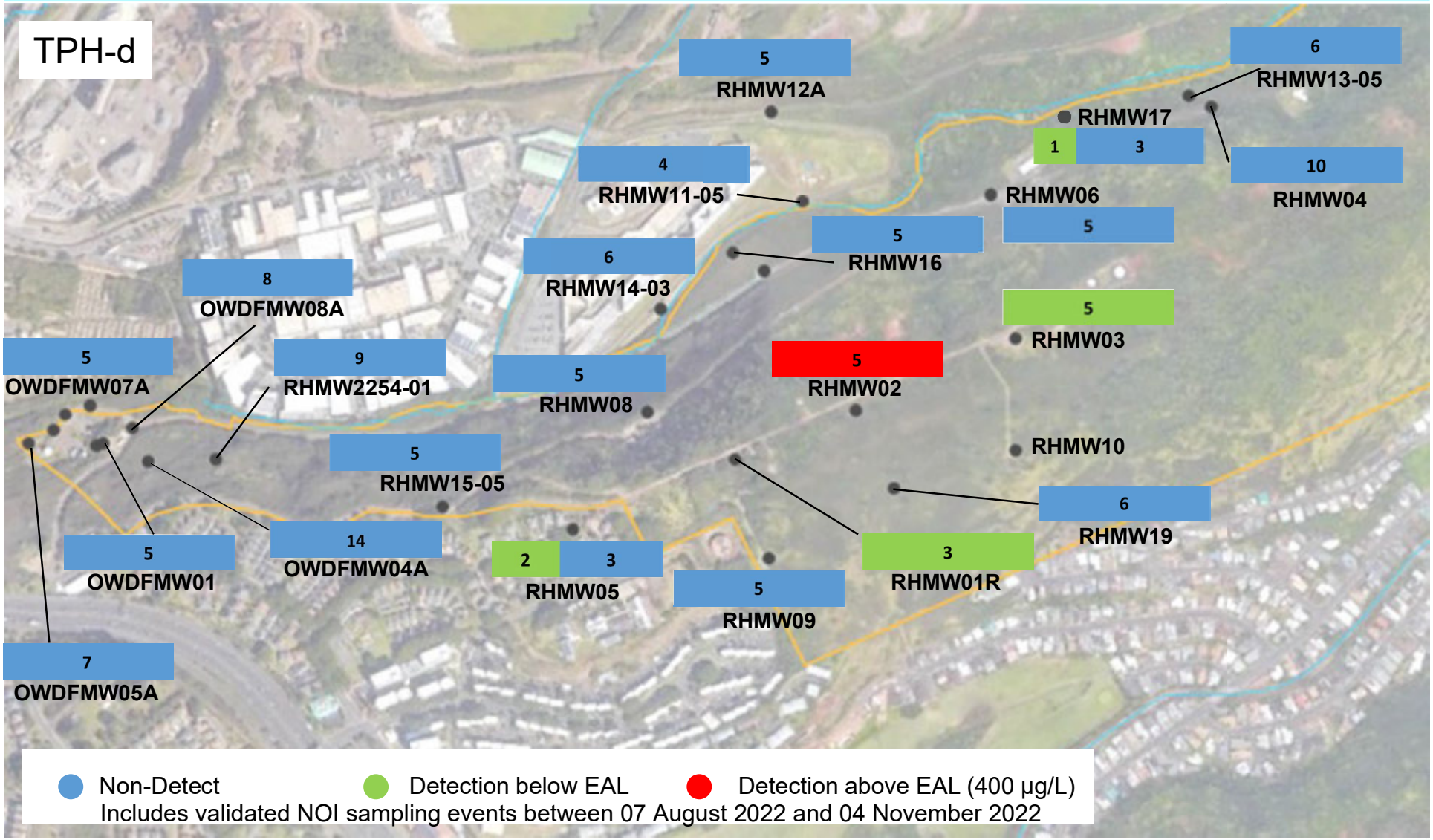


Figure 10: Summary of Groundwater Sampling Results for TPH-d

9.3.3 TPH-o

TPH-o exceedances detected from monitoring wells during the reporting period are summarized in Table 9, and TPH-o detections are depicted on Figure 11. As shown on the figure:

- TPH-o was detected at in-tunnel wells RHMW02 and RHMW03 during all sampling events, with one event not detected for TPH-o. TPH-o concentrations are stable at the in-tunnel wells.
- TPH-o was not detected in any outlying well, delineation well, at RHMW2254-01, or at the BWS wells during the reporting period.

One exceedance was reported at in-tunnel well RHMW03 (640 µg/L). The EAL for TPH-o is 500 µg/L. As depicted in Appendix B.5, the chromatographic fingerprint from RHMW03 exhibited broad peaks and baseline rise sporadically dispersed throughout the TPH-o carbon range; these are not consistent with the chromatographic profile seen in RHMW02, thus there is no clear correlation to fuel-related impact in this well from a JP-5 release. RHMW03 has had TPH-o detections historically ,which may have been associated with degradation of a heavier fuel.

Eurofins' method blanks often have peaks that have hydrocarbon-like patterns, typically above C20, that may obscure interpretation of TPH-o chromatograms and may have contributed to the exceedance reported for RHMW03. The corrective action report is presented in Appendix E, which provides further support that the discrete peak patterns in the method blanks are contributing to the chromatographic pattern observed and to the TPH-o results.

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

TPH-o Sample Results

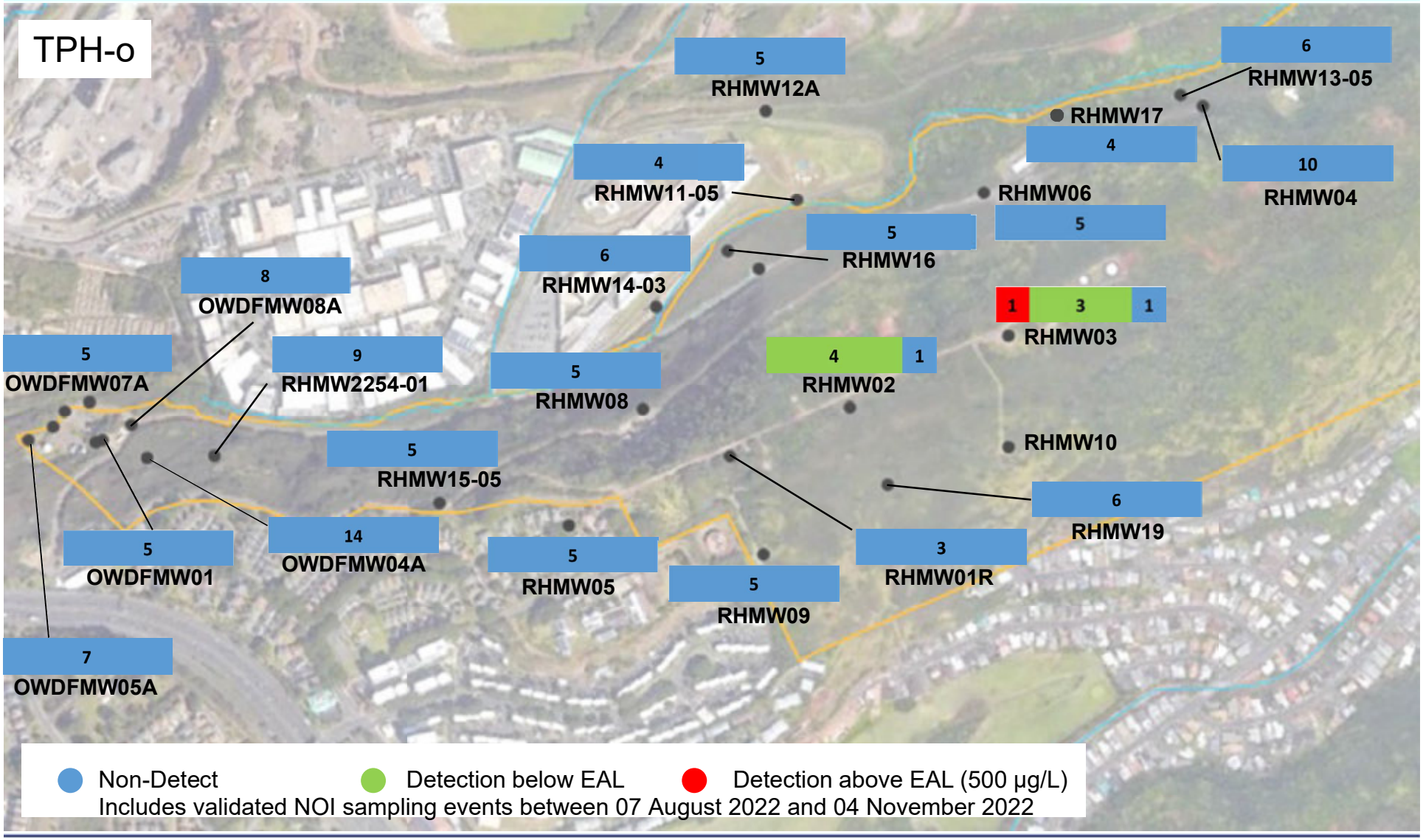


Figure 11: Summary of Groundwater Sampling Results for TPH-o

9.3.4 Lead Scavengers

1,2-dibromoethane was not detected at any well monitored during the reporting period. 1,2-dichloroethane had three low-level detections (ranging from 0.082 J to 0.19 J µg/L) at RHMW17; all other wells were not detected. All QC and analytical criteria were met, and method blanks were not detected. Subsequent monitoring events were not detected for 1,2-dichloroethane. There are no known fuel sources of 1,2-dichloroethane, which is not used in jet fuel or in aviation gasoline. It was used in motor gasoline during leaded gasoline use (the United States banned use of lead in gasoline in in 1996). The most common current use of 1,2-dichloroethane is in the production of vinyl chloride, which is used to make a variety of plastic and vinyl products including PVC pipes, furniture and automobile upholstery, wall coverings, housewares, and automobile parts.

9.3.5 Lead

Total lead was detected at low-level concentrations at all wells. Detected results did not exceed the EAL during the reporting period, and concentrations remained stable and consistent with historical ranges for all wells. The maximum concentration for total lead was 1.8 µg/L at RHMW05, and for dissolved lead was 0.81 µg/L at RHMW19.

All detected lead results from the BWS split sampling events were below the EAL with the exception of the DH43 total lead concentration (53 µg /L), which exceeded the EAL (Appendix B.4.7).

9.3.6 BTEX

No BTEX EAL exceedances were reported for any wells monitored during this reporting period (as shown in Table 9 for NOI wells and Table 10 for delineation wells).

Two low-level detections of benzene were reported at in-tunnel well RHMW02 (0.034 and 0.036 µg/L with a frequency of 1.5 percent), but benzene was not detected in subsequent samples, and there were no prior benzene detections reported at this well since May 13, 2022.

Toluene was not detected in any well.

Ethylbenzene and xylenes detections include in-tunnel wells RHMW02 and one xylene detect at RHMW05. Ethylbenzene and xylenes were each detected at a frequency of 3.0%. The detection of xylene in RHMW05 was not confirmed in subsequent samples from this well.

Current ethylbenzene and total xylene detections at RHMW02 are stable and consistent with historical detections and are indicative of a weathered LNAPL source, most likely attributable to the January 2014 Release at Tank 5 and not to the May 2021 or November 2021 Releases. Toluene is preferentially depleted under anaerobic conditions, which is occurring at RHMW02.

Additionally, no BTEX were reported from the BWS split sampling events (Appendix B.4.7).

9.3.7 VOCs

No VOC EAL exceedances were reported for any wells monitored during this reporting period, as shown in Table 9. 1,1,2-trichloroethane at RHMW02, cis-1,3-dichloropropene at RHMW04 chloride, and methylene at OWDFMW05A were detected during this reporting period. These compounds were not detected in prior and subsequent monitoring events and are not associated with fuel sources. Low-level random detections are not unexpected from analysis of samples from many different sites at commercial laboratories.

Chloroform, chloromethane, or both were detected in 18 groundwater wells during multiple collection events: RHMW2254-01, RHMW01R, RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, RHMW12A, RHMW13-05, RHMW16, RHMW17, RHMW19, OWDFMW01, OWDFMW04A, OWDFMW05A, OWDFMW08A. These low-level VOC detects are consistent with historical data and investigations. As reported in the Red Hill CSM report (DON 2019), chloroform, chloromethane, and MEK were historically detected at RHMW01, RHMW03, and the outlying wells. The CSM report concluded that detections were not associated with the January 2014 Release and instead were associated with field or laboratory contamination, well construction, or maintenance.

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

- Chloroform is both a synthetic and a naturally occurring compound, although anthropogenic sources are responsible for most chloroform found in the environment. Chloroform is released into the environment as a result of its manufacture and use; its formation in the chlorination of drinking water and municipal/industrial waste water; and other water treatment processes involving chlorination. Under anaerobic conditions, some bacteria can dehalogenate carbon tetrachloride to release chloroform (ATSDR 1997).
- Chloromethane is both synthetic and naturally occurring. It is produced in the environment from rotting wood and fungus. Chloromethane is also used in products such as silicones and is formed from burning products like cigarettes or plastics (ATSDR 1998).

Additionally, no VOCs were detected from the BWS split sampling events (Appendix B.4.7).

9.3.8 SVOCs

Samples were analyzed for the laboratory's full suite of SVOCs. The sampling events detailed below cover the current reporting period in which validated Level II and Level IV data packages have been completed. The data are summarized in Table 9 and below.

SVOC detections during this reporting period were consistent with historical investigations. Detected SVOCs were m+p-cresols, o-cresol, and five phthalates: bis(2-ethylhexyl) phthalate, butyl benzyl phthalate, di-n-octyl phthalate, diethyl phthalate and dimethyl phthalate. SVOCs not

detected previously but detected during this reporting period include isophorone and phenol. SVOC results and specific impacted wells are summarized as follows:

- Bis(2-ethylhexyl) phthalate was reported in two samples, once at RHMW17 and once at RHMW19. The detection at RHMW17 (3.8 µg/L) exceeded the EAL (3 µg/L). Various phthalates, including bis(2-ethylhexyl) phthalate and dimethyl phthalate, were detected at RHMW01, RHMW03, and outlying wells during previous sampling events; it was concluded that the detects were not associated with the fuel release and instead are likely associated with sampling equipment or laboratory contamination issues (DON 2019). Additionally, phthalates are prevalent in the environment because of their use in plastics such as PVC, which may comprise well construction materials, and are factors that may contribute to this exceedance.
- Dimethylphthalate was reported once at RHMW04, RHMW05, RHMW09, RHMW11-05, RHMW14-03, RHMW19, and OWDFMW05A, and twice at OWDFMW04A. Diethyl phthalate was reported in one sample at RHMW17. Dimethylphthalate and diethylphthalate have been detected during previous sampling events. Detected results were below the EAL.
- Butylbenzylphthalate was reported in one sample from RHMW11-05 and has been reported a few times historically at other locations. No EAL has been established for butylbenzylphthalate.
- Di-n-octyl phthalate was detected in one sample from RHMW17 and has been reported a few times historically at other locations. No EAL has been established for di-n-octyl phthalate.
- m+p-cresols and o-cresol were reported once at each of the following six monitoring wells during this reporting period: RHMW03, RHMW04, RHMW06, RHMW08, RHMW17, and OWDFMW08A. m+p-cresols had been previously detected at RHMW01R, RHMW02, RHMW03, and RHMW06. No EAL has been established for m+p-cresols and o-cresol.
- Isophorone was reported once at RHMW11-05 and RHMW14-03 and was not detected previously or in subsequent monitoring events. Detected results were below the EAL.
- Phenol was detected once at RHMW06 and was not detected previously or in subsequent monitoring events. Detected results were below the EAL.

Phthalates (bis(2-ethylhexyl) phthalate, dimethyl phthalate, diethyl phthalate, butylbenzylphthalate, and di-n-octyl phthalate) are not commonly associated with fuel and are found mainly in solvents used as wetting agents and as plasticizers. The phthalate detections may also be indicators of sampling equipment or laboratory contamination issues, as supported by blank contamination and failing QC criteria. Detections of SVOCs other than phthalates appear to be random and are not consistent with historical investigations. Additionally, no SVOCs were detected from the BWS split sampling events (Appendix B.4.7).

9.3.9 PAHs

PAHs can be divided into two different categories: non-pyrogenic and pyrogenic (Figure 12). Non-pyrogenic PAHs are commonly found in petroleum. Non-pyrogenic PAHs that are present in kerosene or jet fuels include 1MN, 2MN, N, and, to lesser extents, acenaphthene, acenaphthylene and fluorene.

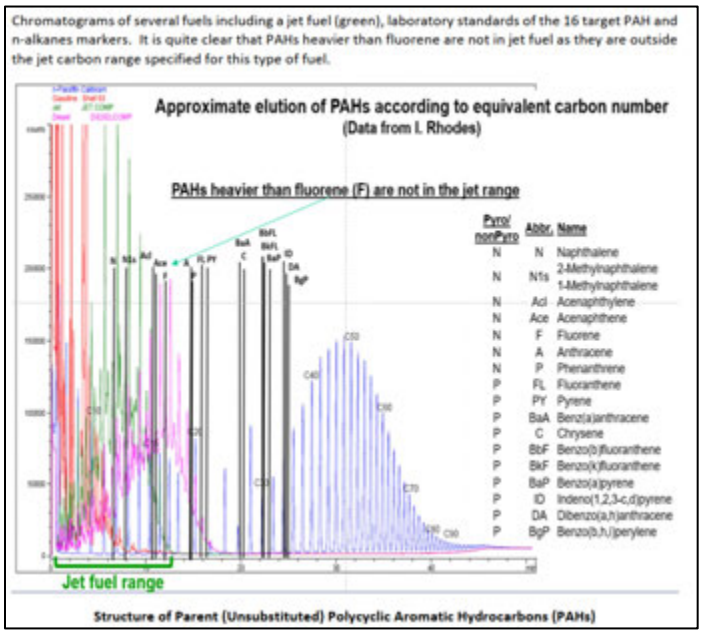


Figure 12: Approximate Elution of PAHs According to Equivalent Carbon Number

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

PAH data collected during the reporting period are summarized below. The detections are consistent with PAHs expected in jet fuels.

Consistent with historical data, PAH COPCs (N, 1-MN, and 2-MN) were detected primarily at in-tunnel well RHMW02 during this reporting period. All three naphthalenes were reported in multiple samples collected at RHMW02 at concentrations above their respective EALs. RHMW02 had five samples with reported concentrations of 1MN above the EAL (10 µg/L), with a maximum detected concentration of 32 µg/L. Concentrations of 2MN (up to 19 µg/L) and N (up to 42 µg/L) also exceeded their EALs in two samples from RHMW02. The EAL for 2MN is 10 µg/L and 17 µg/L for N.

No exceedances of any PAHs were reported at the other wells. Naphthalene was consistently detected at RHMW01R but below the EAL. In addition to the PAH COPCs, other non-pyrogenic

PAHs detected at RHMW01R and RHMW02 include acenaphthene, acenaphthylene, and fluorene. RHMW02 had consistent detects for acenaphthene and fluorene, while RHMW01R had two detects for acenaphthene and one detect for fluorene. Acenaphthylene was detected during three collection events at RHMW02. Non-pyrogenic PAHs detected during multiple sampling events at RHMW01R and RHMW02 appear stable. No naphthalene detections were reported in delineation (Appendix B.4.6) or BWS well samples (Appendix B.4.7).

9.3.10 Natural Attenuation Parameters

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

9.4 Adit 3 Sump Analytical Results

Summary statistics for Adit 3 Sump samples collected during the current reporting period are described below and provided in Table 11. Appendix B.4 provides the historical Adit 3 Sump monitoring results compared to the EALs for each analyte group. Additionally, TPH results collected during the reporting period are graphically displayed over time in Appendix B.4.

9.4.1 TPH-g

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

9.4.2 TPH-d

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

9.4.3 TPH-o

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

Table 11: Summary of Adit 3 Sump Analytical Results for Current Reporting Period (8/7/2022 to 11/4/2022)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier	Criteria	Number of Exceedances	Exceedance Frequency
TPH and Fuel Related Compounds														
TPH-g (Eurofins Labs)	PHCC6C10	8260/CALUFT DOD	µg/L	3	3	0	0.0%	ND		ND		300	0	0.0%
TPH-d (Eurofins Labs)	PHCC10C24	8015DM	µg/L	3	3	0	0.0%	ND		ND		400	0	0.0%
TPH-o (Eurofins Labs)	PHCC24C40	8015DM	µg/L	3	3	0	0.0%	ND		ND		500	0	0.0%
Total Organic Carbon	—	—	µg/L	3	0	3	100.0%	380	J	520	J	—	0	0.0%
1,2-Dibromoethane	106-93-4	8011	µg/L	3	3	0	0.0%	ND		ND		0.04	0	0.0%
Methane	74-82-8	SW8015M	µg/L	3	1	2	66.7%	0.68	J	0.69	J	—	0	0.0%

Table 11: Summary of Adit 3 Sump Analytical Results for Current Reporting Period (8/7/2022 to 11/4/2022) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier	Criteria	Number of Exceedances	Exceedance Frequency
BTEX, Full Suite VOCs, and Lead														
Benzene	71-43-2	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
Ethylbenzene	100-41-4	8260B	µg/L	3	2	1	33.3%	0.093	J	0.093	J	30	0	0.0%
Toluene	108-88-3	8260B	µg/L	3	3	0	0.0%	ND		ND		40	0	0.0%
Xylenes	1330-20-7	8260B	µg/L	3	2	1	33.3%	0.28	J	0.28	J	20	0	0.0%
Bromobenzene	108-86-1	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
Bromochloromethane	74-97-5	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
Bromodichloromethane	75-27-4	8260B	µg/L	3	3	0	0.0%	ND		ND		0.14	0	0.0%
Bromoform	75-25-2	8260B	µg/L	3	3	0	0.0%	ND		ND		80	0	0.0%
Carbon tetrachloride	56-23-5	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
Chlorobenzene	108-90-7	8260B	µg/L	3	3	0	0.0%	ND		ND		25	0	0.0%
Chlorodibromomethane	124-48-1	8260B	µg/L	3	3	0	0.0%	ND		ND		0.93	0	0.0%
Chloroethane	75-00-3	8260B	µg/L	3	3	0	0.0%	ND		ND		16	0	0.0%
Chloroform	67-66-3	8260B	µg/L	3	2	1	33.3%	0.033	J	0.033	J	28	0	0.0%
Chloromethane	74-87-3	8260B	µg/L	3	2	1	33.3%	0.42	J	0.42	J	190	0	0.0%
1,2-Dibromoethane	106-93-4	8011	µg/L	3	3	0	0.0%	ND		ND		0.04	0	0.0%
2-Chlorotoluene	95-49-8	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
4-Chlorotoluene	106-43-4	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
Dibromomethane	74-95-3	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
1,2-Dichlorobenzene	95-50-1	8260B	µg/L	3	3	0	0.0%	ND		ND		10	0	0.0%
1,3-Dichlorobenzene	541-73-1	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
1,4-Dichlorobenzene	106-46-7	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
Dichlorodifluoromethane	75-71-8	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
1,1-Dichloroethane	75-34-3	8260B	µg/L	3	3	0	0.0%	ND		ND		2.8	0	0.0%
1,2-Dichloroethane	107-06-2	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
1,1-Dichloroethene	75-35-4	8260B	µg/L	3	3	0	0.0%	ND		ND		7	0	0.0%
cis-1,2-Dichloroethene	156-59-2	8260B	µg/L	3	3	0	0.0%	ND		ND		70	0	0.0%
trans-1,2-Dichloroethene	156-60-5	8260B	µg/L	3	3	0	0.0%	ND		ND		100	0	0.0%
1,2-Dichloropropane	78-87-5	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
1,3-Dichloropropane	142-28-9	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
2,2-Dichloropropane	594-20-7	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
1,1-Dichloropropene	563-58-6	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
cis-1,3-Dichloropropene	10061-01-5	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
trans-1,3-Dichloropropene	10061-02-6	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
Methyl ethyl ketone	78-93-3	8260B	µg/L	3	3	0	0.0%	ND		ND		5600	0	0.0%
Methyl tert-butyl ether (MTBE)	1634-04-4	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
Methylene chloride	75-09-2	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
Styrene	100-42-5	8260B	µg/L	3	3	0	0.0%	ND		ND		10	0	0.0%
1,1,1,2-Tetrachloroethane	630-20-6	8260B	µg/L	3	3	0	0.0%	ND		ND		0.61	0	0.0%
1,1,2,2-Tetrachloroethane	79-34-5	8260B	µg/L	3	3	0	0.0%	ND		ND		0.078	0	0.0%
Tetrachloroethene	127-18-4	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
1,1,1-Trichloroethane	71-55-6	8260B	µg/L	3	3	0	0.0%	ND		ND		11	0	0.0%
1,1,2-Trichloroethane	79-00-5	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
Trichloroethene	79-01-6	8260B	µg/L	3	3	0	0.0%	ND		ND		5	0	0.0%
Trichlorofluoromethane	75-69-4	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
1,2,3-Trichloropropane	96-18-4	8260B	µg/L	3	3	0	0.0%	ND		ND		0.6	0	0.0%
Vinyl chloride	75-01-4	8260B	µg/L	3	3	0	0.0%	ND		ND		2	0	0.0%
m+p-Xylenes	179601-23-1	8260B	µg/L	3	2	1	33.3%	0.28	J	0.28	J	—	0	0.0%
o-Xylene	95-47-6	8260B	µg/L	3	3	0	0.0%	ND		ND		—	0	0.0%
Lead	7439-92-1	SW6020	µg/L	3	0	3	100.0%	0.37	J	6.9		5.6	1	33.3%
Dissolved Lead	7439-92-1	SW6020	µg/L	3	1	2	66.7%	0.24	J	0.35	J	—	0	0.0%

Table 11: Summary of Adit 3 Sump Analytical Results for Current Reporting Period (8/7/2022 to 11/4/2022) (cont'd)

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

Table 11: Summary of Adit 3 Sump Analytical Results for Current Reporting Period (8/7/2022 to 11/4/2022) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier	Criteria	Number of Exceedances	Exceedance Frequency
PAHs														
1-Methylnaphthalene	90-12-0	8270D SIM	µg/L	3	3	0	0.0%	ND		ND		10	0	0.0%
2-Methylnaphthalene	91-57-6	8270D SIM	µg/L	3	3	0	0.0%	ND		ND		10	0	0.0%
Naphthalene	91-20-3	8270D SIM	µg/L	3	3	0	0.0%	ND		ND		17	0	0.0%
Acenaphthene (SIM)	83-32-9	8270SIM	µg/L	3	3	0	0.0%	ND		ND		15	0	0.0%
Acenaphthylene (SIM)	208-96-8	8270SIM	µg/L	3	3	0	0.0%	ND		ND		13	0	0.0%
Anthracene (SIM)	120-12-7	8270SIM	µg/L	3	2	1	33.3%	0.021	J	0.021	J	0.02	1	33.3%
Benzo(a)anthracene (SIM)	56-55-3	8270SIM	µg/L	3	1	2	66.7%	0.027	J	0.15		0.027	2	66.7%
Benzo(a)pyrene (SIM)	50-32-8	8270SIM	µg/L	3	1	2	66.7%	0.033	J	0.21		0.06	1	33.3%
Benzo(b)fluoranthene (SIM)	205-99-2	8270SIM	µg/L	3	1	2	66.7%	0.047	J	0.22		0.22	1	33.3%
Benzo(g,h,i)perylene (SIM)	191-24-2	8270SIM	µg/L	3	1	2	66.7%	0.03	J	0.14		0.13	1	33.3%
Benzo(k)fluoranthene (SIM)	207-08-9	8270SIM	µg/L	3	1	2	66.7%	0.022	J	0.081		0.4	0	0.0%
Chrysene (SIM)	218-01-9	8270SIM	µg/L	3	1	2	66.7%	0.051	J	0.19		1	0	0.0%
Dibenzo(a,h)anthracene (SIM)	53-70-3	8270SIM	µg/L	3	2	1	33.3%	0.034	J	0.034	J	0.022	1	33.3%
Fluoranthene (SIM)	206-44-0	8270SIM	µg/L	3	1	2	66.7%	0.059	J	0.25		0.8	0	0.0%
Fluorene (SIM)	86-73-7	8270SIM	µg/L	3	3	0	0.0%	ND		ND		3.9	0	0.0%
Indeno(1,2,3-cd)pyrene (SIM)	193-39-5	8270SIM	µg/L	3	1	2	66.7%	0.038	J	0.2		0.095	1	33.3%
Phenanthrene (SIM)	85-01-8	8270SIM	µg/L	3	2	1	33.3%	0.072	J	0.072	J	2.3	0	0.0%
Pyrene (SIM)	129-00-0	8270SIM	µg/L	3	1	2	66.7%	0.072	J	0.26		4.6	0	0.0%

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

[a] Includes normal and field duplicate samples.

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

9.4.4 Lead Scavengers

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

9.4.5 Total and Dissolved Lead

Total lead was detected above the EAL in one out of three samples, with a maximum concentration of 6.9 µg/L, above the EAL of 5.6 µg/L. Dissolved lead was detected below the EAL in two of three samples, with a maximum detected concentration of 0.35 J µg/L.

9.4.6 BTEX

Ethylbenzene and xylene were detected below the EALs in one out of three samples, with a maximum concentration of 0.093 J µg/L and 0.28 J µg/L, respectively.

9.4.7 VOCs

A few detections of chloroform and chloromethane occurred during the reporting period, which is consistent with VOC concentrations from the previous quarterly monitoring events. One detection of m,p-xylene was also reported. All detected VOCs were below the EAL.

9.4.8 SVOCs

No SVOCs were detected during the reporting period.

9.4.9 PAHs

No PAH COPCs were detected at Adit 3 Sump during the reporting period.

Pyrogenic PAH exceedances occurred for one of three collection events; benzo(a)anthracene exceeded the EAL during a second collection event. The maximum concentration for PAH exceedances reported for anthracene was (0.021 J µg/L, EAL 0.02 µg/L), benzo(a)anthracene (0.15 µg/L, EAL 0.027 µg/L), benzo(a)pyrene (0.21 µg/L, EAL 0.06 µg/L), benzo(b)fluoranthene (0.22 µg/L, EAL 0.22 µg/L), benzo(g,h,i)perylene (0.14 µg/L, EAL 0.13 µg/L), dibenzo(a,h)anthracene (0.034 J µg/L, EAL 0.022 µg/L), and indeno(1,2,3-cd)pyrene (0.2 µg/L, EAL 0.095 µg/L).

10.0 Summary of Results and Extent and Magnitude of Contamination

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

10.1 Soil Vapor

10.1.1 Extent and Magnitude of Soil Vapor Impacts at Below-Tank Sampling Points

The extent and magnitude of soil vapor impacts are described below.

10.1.1.1 FIELD MEASUREMENTS

PID results over time for SVMPs at Tanks 17, 18, and 20 are presented on Figure 13 and summarized as follows:

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

During the current reporting period, maximum PID readings were below 10,000 ppbv at all SVMPs beneath the fuel storage tanks.

10.1.1.2 FIXED-BASE LABORATORY SAMPLE RESULTS

Summa canister sample results analyzed for Total VOCs by Method TO-15 and Method TO-3 are summarized below.

Below-Tank Individual VOCs by Method TO-15

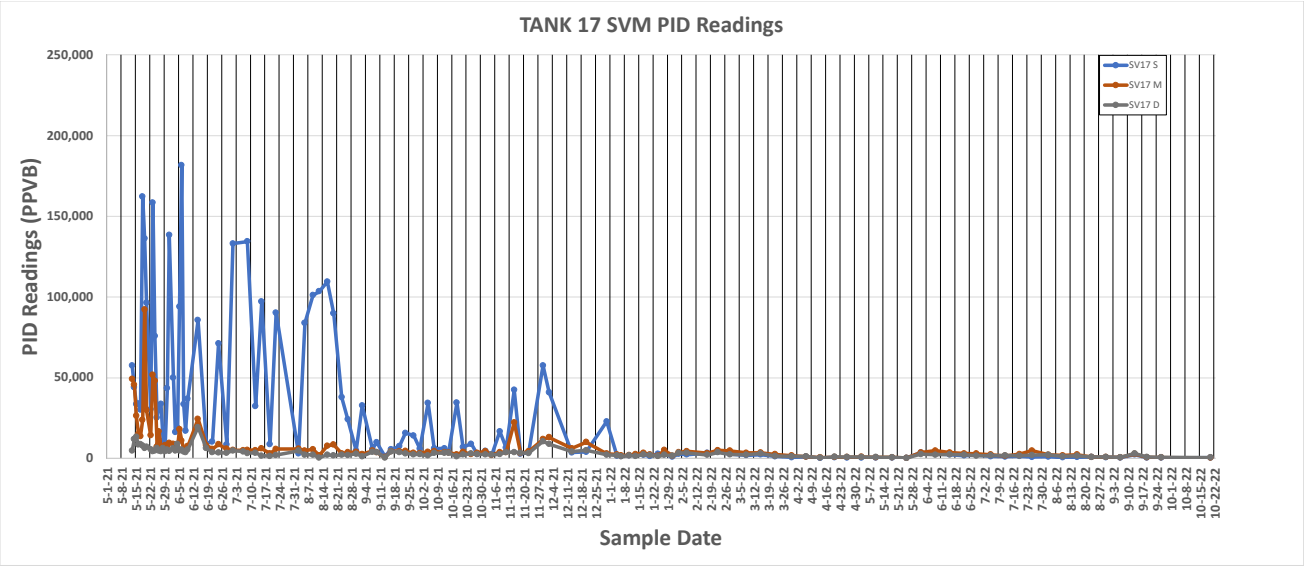
The measured concentration of individual VOCs serves to identify those VOCs most characteristic of the May 2021 Release. The five petroleum VOCs that appear to be most characteristic of the release are ethylbenzene, total xylenes, 4-ethyltoluene, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene. Concentrations of these indicator compounds above 1,000 $\mu g/m^3$ were observed only during the May and June 2021 sampling events, and only in samples from SV17S, SV18S, and SV20M. The concentrations of these individual hydrocarbons decreased rapidly, with no individual hydrocarbons measured at concentrations above 10 $\mu g/m^3$ during the three sampling events covered by this reporting period (i.e., July, August, and September 2022).

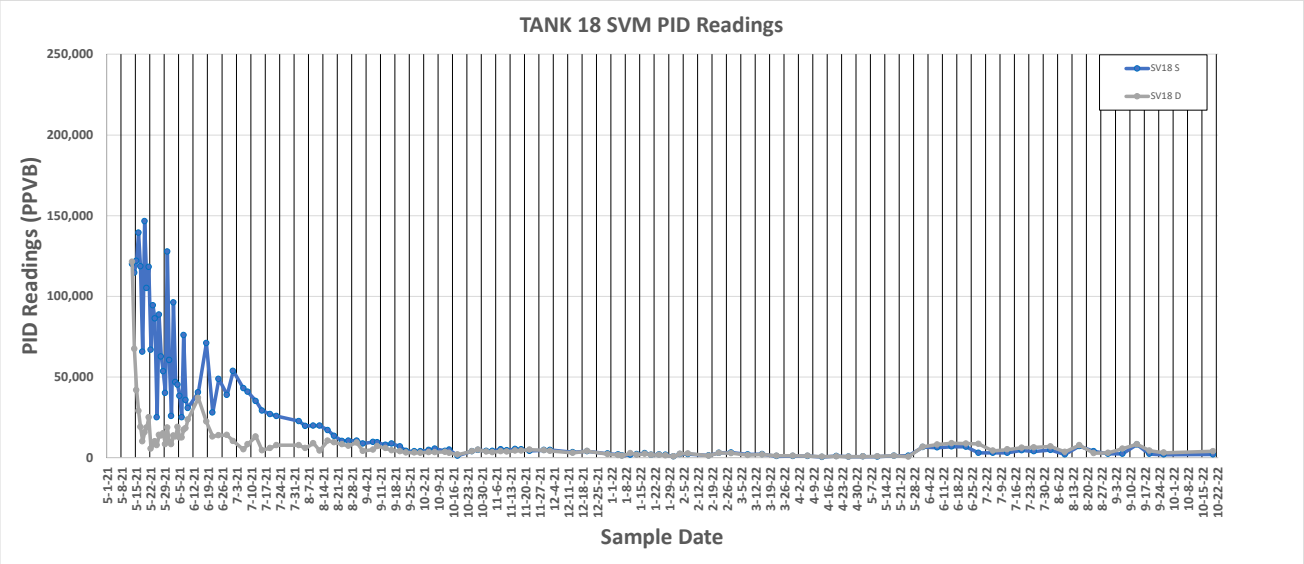
Below-Tank Total VOCs by Method TO-3

For the soil vapor samples, total VOC concentrations have decreased over time from a maximum of 150,000 ppbv (at SV20M) for the May 2021 sampling event to a maximum of 1,000 ppbv (at SV18D) for the June 2022 sampling event, consistent with other indicators of limited impacts.

Below-Tank TO-3 Chromatograms

In addition to quantification of total VOC concentrations, each Method TO-3 analysis yields a flame ionization detector chromatogram that can be used for qualitative analysis of the sample composition, including evaluation of weathering (Appendix A.4). As described in more detail in previous Quarterly RRRs, the changes in chromatogram patterns since May 6, 2021 are consistent with a year-old release of JP-5 with relatively rapid weathering of that release over time.





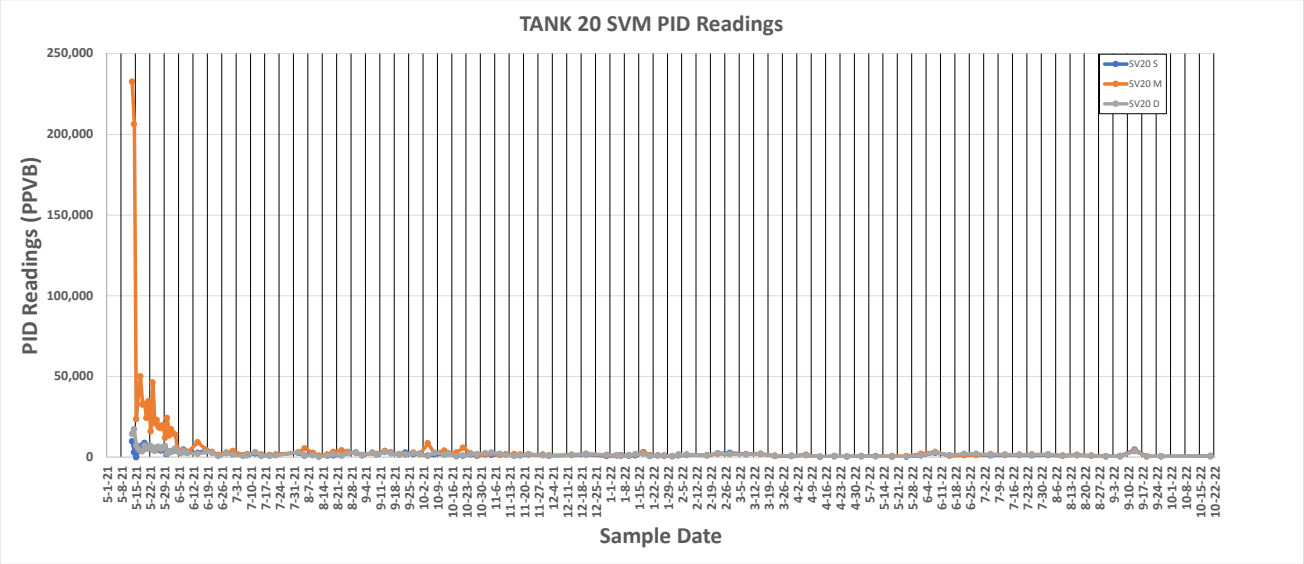


Figure 13: Soil Vapor PID Readings for Tanks 17, 18, and 20

Below-Tank Oxygen, Carbon Dioxide, and Methane

Laboratory analysis has documented near-atmospheric (i.e., nearly 21 percent) oxygen concentrations, carbon dioxide below 2 percent, and non-detect methane. These results indicate conditions favorable for aerobic biodegradation of petroleum.

10.1.2 Extent and Magnitude of Soil Vapor Impacts at Adit 3 Tunnel Locations

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

10.1.2.1 Field Measurements for Adit 3 Tunnel Locations

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

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

10.2 Groundwater Impacts

Table 9 and Table 10 present summary statistics for the groundwater sampling results during the current reporting period, and Table 12 presents a summary of groundwater concentrations detected above the DOH EALs. The most common constituents detected were TPH-d and TPH-o at in-tunnel sampling locations. At least one groundwater sample had detected concentrations above the DOH EAL for one of the following other compounds during this reporting period: TPH-d, TPH-o, bis(2-ethylhexyl) phthalate, 1MN, 2MN, and N. The vast majority of the analytes were not detected in any sample. Additional details for each of these compounds are summarized below.

Table 12: Summary of Current Groundwater Result Exceedances

						Analyte	TPH-d (Eurofins Labs)		TPH-o (Eurofins Labs)		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		bis(2-ethylhexyl)Phthalate	
						CAS No.	PHCC10C24		PHCC24C40		90-12-0		91-57-6		91-20-3		117-81-7	
						Method	8015DM		8015DM		8270SIM		8270SIM		8270SIM		SW8270C	
						DOH Tier 1 EAL	400		500		10		10		17		3	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	**3200**		—		**24**		**15**		**28**		—	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V	—		—		—		—		—		**3.8**	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	**1900**		—		**11**		—		—		—	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	—		**640**		—		—		—		—	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	**4000**		—		**32**		**19**		**42**		—	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	**2900**		—		**12**		—		—		—	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	**2400**		—		**10**		—		—		—	

Notes:
Bold and orange shaded text indicates exceeds the Department of Health Tier 1 EAL.
Green text indicates results have completed third-party validation.
— = not analyzed or not applicable
TPH-d = total petroleum hydrocarbons-diesel range organics
TPH-o = total petroleum hydrocarbons-residual range

10.2.1 TPH-d

TPH-d detections above the DOH EAL of 400 µg/L were reported consistently at in-tunnel well RHMW02. No other wells reported exceedances of TPH-d. The chromatographic fingerprint resembles water-soluble components of jet fuel and metabolites from fuel biodegradation. Results of SGC (used to remove the polar material) indicate ongoing biodegradation and weathering of fuel in this location.

TPH-d concentrations at in-tunnel wells RHMW01R and RHMW03 appear to be stable, below the EAL (130–310 µg/L range). RHMW05 had two detections (66 J and 99 J µg/L) in six samples, and RHMW17 had a single detection (100 J µg/L) with no detections in these two wells in subsequent samples. SGC removed most or all the TPH-d concentrations from most samples, indicating that most or all the detected hydrocarbons are polar compounds or metabolites. This may be indicative (but not exclusively so) of biodegradation and weathering of fuels or may not be related to fuels and instead may be associated with naturally occurring organic matter or sample handling artifacts.

10.2.2 TPH-o

TPH-o was detected at in-tunnel wells RHMW02 and RHMW03 during this reporting period. These two wells have had historical detections for TPH-o, and concentrations appear to be stable. Concentrations were below the DOH EAL of 500 µg/L except for one detection at RHMW03 (640 µg/L).

Several of the method blanks had peaks that have hydrocarbon-like patterns, typically above carbon range C20, which may obscure interpretation of TPH-o chromatograms. A corrective action report provided by Eurofins Seattle (Appendix E) provides further support that discrete peak patterns in the method blanks are contributing to the chromatographic pattern observed.

SGC performed on the groundwater extracts removed the TPH-o concentration from all but one sample from RHMW02, indicating either that TPH-o in these samples is composed of polar compounds or metabolites (i.e., heavily biodegraded/weathered material) or that the material detected as TPH may not be related to fuels.

10.2.3 Full Suite VOCs including BTEX

No VOC or BTEX exceedances were reported for any monitoring wells monitored during the reporting period (Table 9).

Two low-level detections of benzene were reported at in-tunnel well RHMW02, but was not detected in subsequent samples, and there were no prior benzene detections at this well since May 13, 2022.

Toluene was not detected in any well.

Ethylbenzene and xylenes detections include RHMW02 and one xylene detect at RHMW05. The detection of xylene in RHMW05 was not confirmed in subsequent samples from this well. Ethylbenzene and total xylene detections at RHMW02 are consistent with historical detections and are indicative of a weathered LNAPL source, most likely attributable to the January 2014 Release and not to the May 2021 or November 2021 Releases.

Chloroform or chloromethane were detected in eighteen groundwater wells during multiple collection events. Current VOC detections are consistent with historical investigations. As reported in the June 30, 2019 Red Hill CSM report (DON 2019), chloroform and chloromethane were historically detected and concluded that detects were not associated with fuel release and instead were associated with field or laboratory contamination, well construction or maintenance, or historical or current activities at the site.

One or two detections of 1,1,2-trichloroethane, cis-1,3-dichloropropene, and methylene chloride were detected at RHMW02, RHMW04, and OWDFMW05A. These compounds were not detected in prior or subsequent monitoring events and are not associated with fuel sources.

10.2.4 Full Suite SVOCs

One SVOC exceedance for bis(2-ethylhexyl) phthalate was reported during one monitoring event during this reporting period at RHMW17; the compound was not detected during subsequent monitoring events.

Other phthalates detected include butyl benzyl phthalate, di-n-octyl phthalate, diethyl phthalate and dimethyl phthalate. Phthalates are commonly found in solvents used as wetting agents and as plasticizers. They are not associated with fuels. As reported in the 2019 CSM report (DON 2019), various phthalates, including bis(2-ethylhexyl) phthalate and dimethyl phthalate, were historically detected during previous sampling events. The CSM report concluded that the detects were not associated with a fuel release and instead are associated with sampling equipment or laboratory contamination issues. This has been corroborated by previously reported blank contamination and failed QC criteria.

Four other SVOCs (m+p-cresols, o-cresol, isophorone and phenol) were detected infrequently during this reporting period. No EAL has been established for m+p-cresols and o-cresol. The low-level single detection of phenol (RHMW06) is most likely attributed to instrumentation contamination that is carrying over to the sample, since phenol detects from other well samples were flagged for blank contamination.

10.2.5 PAHs

RHMW02 had PAHs reported above DOH EALs (non-pyrogenic) during this reporting period, consistent with historical results. No pyrogenic PAHs were detected in any groundwater samples.

Non-pyrogenic PAHs detected above the DOH EALs include several exceedances for 1MN, 2MN, and N at RHMW02, which are consistent with historical data. All samples from RHMW02 contain

all three of these PAHs as well as other non-pyrogenic PAHs (acenaphthene, acenaphthylene, and fluorene). This well is known to have been impacted by historical fuel releases.

Other non-pyrogenic PAHs (naphthalene, acenaphthene, and fluorene) were detected in most samples from RHMW01R.

10.3 Adit 3 Sump

Analytical results for Adit 3 are presented in Section 9.3.10. Table 9 presents summary statistics for the Adit 3 sampling results during the current reporting period, and Table 12 presents a summary of concentrations detected above the DOH EALs.

TPH-g, TPH-d, TPH-o, 1MN, 2MN, N and SVOCs were not detected in any samples reported in this time period. Ethylbenzene and xylenes were detected in one sample. Chloroform and chloromethane were detected in another sample. No other VOCs were detected.

Pyrogenic PAHs exceedances were reported for anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene for one out of three collection events; benzo(a)anthracene exceeded the EAL during a second collection event. Pyrogenic PAHs are not associated with fuels and may be arriving in the sump from other sources.

Total lead was detected above the EAL in one out of three samples, with a maximum concentration of 6.9 µg/L, above the EAL of 5.6 µg/L.

11.0 Conclusions and Recommendations

11.1 Conclusions

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

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

No COPCs except one isolated detection of TPH-d below the LOD at RHP04A were detected in the delineation wells during this reporting period.

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

11.2 Recommendations and Planned Future Actions

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

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

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

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

12.0 References

Agency for Toxic Substances and Disease Registry (ATSDR). 1997. *Toxicological Profile for Chloroform*. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service. September.

———. 1998. *Public Health Statement: Chloromethane*. CAS#: 74-87-3. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service. December.

Department of Defense and Department of Energy, United States (DoD and DOE). 2021. *Department of Defense (DoD) and Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories*. DoD/DOE QSM Ver. 5.4. Prepared by DoD

Environmental Data Quality Workgroup and DOE Consolidated Audit Program Operations Team.

Department of Defense, United States (DoD). 2021. *Data Validation Guidelines Module 4: Data Validation Procedure for Organic Analysis by GC*. SW-846 8000 Series. Environmental Data Quality Workgroup. March.

Department of Health, State of Hawaii (DOH). 2005. *Subject: Request for No Further Action Determination for the Red Hill Oily Waste Disposal Facility*. Letter from: M. K. Miyasaka, Hawaii DOH Hazard Evaluation and Emergency Response Office, to: D. Ige, Naval Facilities Engineering Command, Pacific. April 11.

———. 2017. *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater, Hawai'i Edition*. Hazard Evaluation and Emergency Response. Revised 2017. Fall.

———. 2021a. *Notice of Interest in a Release or Threatened Release of Hazardous Substances: Red Hill Bulk Fuel Storage Facility, Pearl Harbor, HI. Case No.: 20210507-0852 JP-5 Spill That Occurred on 6 May 2021*. Letter from: Keith Kawaoka, Hawaii DOH Deputy Director for Environmental Health; to: Admiral R. B. Chadwick II, Navy Region Hawaii. May 10.

———. 2021b. *Release Confirmation and Request for Information*. Letter from: Keith Kawaoka, Hawaii DOH Deputy Director for Environmental Health; to: Rear Admiral R. B. Chadwick II, Navy Region Hawaii. U0636RK. June 6. Subject: Red Hill Bulk Fuel Facility, Pearl Harbor, Hawaii. UST Facility ID No. 9-102271/UST Release ID No. 210012; HEER Incident Release Case No. 20210507-0852.

———. 2021c. *Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan*. Interim Final. Honolulu, HI: Hazard Evaluation and Emergency Response Office. November 12, 2008. Latest Update: July 2021.

———. 2021d. *Notice of Interest in a Release or Threatened Release of Hazardous Substances: Red Hill Bulk Fuel Storage Facility, Pearl Harbor, HI. HEER Incident Release Case No.: 20211120-2330*. Letter from: Kathleen Ho, Hawaii DOH Deputy Director for Environmental Health; to: Rear Admiral Timothy Kott, Navy Region Hawaii. November 24.

Department of the Navy (DON). 1996. *Phase I Remedial Investigation Report, Red Hill Oily Waste Disposal Facility, Fleet and Industrial Supply Center, Pearl Harbor, Oahu, Hawaii, Volume I, Technical Report*. Prepared by Ogden Environmental and Energy Services Co., Inc., Honolulu, HI. Pearl Harbor, HI: Naval Facilities Engineering Command, Pacific. January.

———. 1999. *Initial Phase II Site Characterization Report, Fleet Industrial Supply Center Bulk Fuel Storage Facility at Red Hill*. Prepared by Ogden Environmental and Energy Services Co., Inc., Honolulu, HI. Pearl Harbor, HI: Naval Facilities Engineering Command, Pacific. March.

———. 2000. *Remedial Investigation Phase II, Red Hill Oily Waste Disposal Facility, Halawa, Oahu, Hawaii*. Prepared by Earth Tech, Inc., Honolulu, HI. Volume I, Technical Report. Pearl Harbor, HI: Naval Facilities Engineering Command, Pacific. September.

———. 2002. *Red Hill Bulk Fuel Storage Facility Investigation Report (Final) for Fleet Industrial Supply Center (FISC), Oahu, Hawaii*. Prepared by AMEC Earth&Environmental, Inc., Huntsville, AL. Pearl Harbor, HI: Naval Facilities Engineering Command, Pacific. August.

———. 2005. *Quarterly Groundwater Monitoring Reports, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, Oahu, Hawaii*. 2005–Present. Prepared by Dawson Group, Inc.; TEC, Inc.; Environet, Inc.; Environmental Science International, Inc.; Element Environmental, LLC; and AECOM Technical Services, Inc. Prepared for Naval Facilities Engineering Command, Hawaii, JBPHH, HI.

———. 2007. *Red Hill Bulk Fuel Storage Facility Final Technical Report, Pearl Harbor, Hawaii*. Prepared by TEC, Inc. Pearl Harbor, HI: Naval Facilities Engineering Command, Pacific. August.

———. 2008a. *Monthly Soil Vapor Monitoring Reports, Red Hill Bulk Fuel Storage Facility*. 2008–Present. Prepared for Naval Facilities Engineering Command, Hawaii, JBPHH, HI.

———. 2008b. *Red Hill Bulk Fuel Storage Facility Final Groundwater Protection Plan, Pearl Harbor, Hawaii*. Prepared by TEC Inc. Includes December 2009 Revisions to the Red Hill Groundwater Protection Plan. Pearl Harbor, HI: Naval Facilities Engineering Command, Pacific. January.

———. 2008c. *Tank 17 Removal Action Report, Red Hill Fuel Storage Facility, Pearl Harbor, Oahu, Hawaii*. Prepared by TEC Inc., Honolulu, HI. Pearl Harbor, HI: Commander, Navy Region Hawaii, Environmental Department, Code N45. September.

———. 2010. *Type 1 Letter Report – Re-Evaluation of the Tier 3 Risk Assessment/Groundwater Model & Proposed Course of Action Red Hill Bulk Fuels Storage Facility, Pearl Harbor, HI*. Prepared by TEC Inc. Prepared for Naval Fleet Engineering Service Center and Pearl Harbor Naval Base Fleet Industrial Supply Center. May 4.

———. 2014a. *Tank 5 Initial and Quarterly Release Response Reports, Red Hill Bulk Fuel Storage Facility, JBPHH, Oahu, Hawaii*. April 2014–Present. Prepared by Commander Navy Region Hawaii Environmental Department, Code N45, JBPHH, HI.

———. 2014b. *Interim Update, Red Hill Bulk Fuel Storage Facility Final Groundwater Protection Plan, Pearl Harbor, Hawaii. (January 2008)*. Pearl Harbor, HI: Naval Facilities Engineering Command, Pacific. August.

———. 2015. *Final Project Procedures Manual, U.S. Navy Environmental Restoration Program, NAVFAC Pacific*. JBPHH HI: Naval Facilities Engineering Command, Pacific. May.

———. 2017a. *Work Plan/Scope of Work, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; January 4, 2017, Revision 02*. Prepared by AECOM Technical Services, Inc., Honolulu, HI. Prepared for Defense Logistics Agency Energy, Fort Belvoir, VA, under Naval Facilities Engineering Command, Hawaii, JBPHH HI.

———. 2017b. *Sampling and Analysis Plan, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; January 19, 2017, Revision 00*. Prepared by AECOM Technical Services, Inc., Honolulu, HI. Prepared for Defense Logistics Agency Energy, Fort Belvoir, VA, under Naval Facilities Engineering Command, Hawaii, JBPHH HI.

———. 2017c. *Sampling and Analysis Plan, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; April 20, 2017, Revision 01*. Prepared by AECOM Technical Services, Inc., Honolulu, HI. Prepared for Defense Logistics Agency Energy, Fort Belvoir, VA, under Naval Facilities Engineering Command, Hawaii, JBPHH HI.

———. 2017d. *Sampling and Analysis Plan Addendum 01, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; September 1, 2017, Revision 00*. Prepared by AECOM Technical Services, Inc., Honolulu, HI. Prepared for Defense Logistics Agency Energy, Fort Belvoir, VA, under Naval Facilities Engineering Command, Hawaii, JBPHH HI.

———. 2018a. *Seismic Profiling to Map Hydrostratigraphy in the Red Hill Area, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; March 30, 2018, Revision 00*. Prepared by Lee Liberty and James St. Claire, Boise State University, Boise, ID, for AECOM Technical Services, Inc., Honolulu, HI. Boise State University Technical Report BSU CGISS 18-01. Prepared for Defense Logistics Agency Energy, Fort Belvoir, VA, under Naval Facilities Engineering Command, Hawaii, JBPHH HI.

———. 2018b. *Conceptual Site Model, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; July 27, 2018, Revision 00*. Prepared by AECOM Technical Services, Inc., Honolulu, HI. Prepared for Defense Logistics Agency Energy, Fort Belvoir, VA, under Naval Facilities Engineering Command, Hawaii, JBPHH HI.

———. 2018c. *Groundwater Protection and Evaluation Considerations for the Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i; July 27, 2018, Revision 00*. Prepared by AECOM Technical Services, Inc., Honolulu, HI. Prepared for Defense Logistics Agency Energy, Fort Belvoir, VA, under Naval Facilities Engineering Command, Hawaii, JBPHH HI.

———. 2019. *Conceptual Site Model, Investigation and Remediation of Releases and Groundwater Protection and Evaluation, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, Oʻahu, Hawaiʻi; June 30, 2019, Revision 01*. Prepared by AECOM Technical Services, Inc., Honolulu, HI. Prepared for Defense Logistics Agency Energy, Fort Belvoir, VA, under Naval Facilities Engineering Command, Hawaii, JBPHH HI.

———. 2020a. *Groundwater Flow Model Report, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, Oʻahu, Hawaiʻi; March 25, 2020, Revision 00*. Prepared by AECOM Technical Services, Inc., Honolulu, HI. Prepared for Defense Logistics Agency Energy, Fort Belvoir, VA, under Naval Facilities Engineering Command, Hawaii, JBPHH HI.

———. 2020b. *Investigation and Remediation of Releases Report, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, Oʻahu, Hawaiʻi; March 25, 2020, Revision 00*. Prepared by AECOM Technical Services, Inc., Honolulu, HI. Prepared for Defense Logistics Agency Energy, Fort Belvoir, VA, under Naval Facilities Engineering Command, Hawaii, JBPHH HI.

———. 2020c. *Evaluation of Chromatograms for Understanding TPH Detections in Monitoring Wells, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, Oʻahu, Hawaiʻi*. Prepared by AECOM Technical Services, Inc. JBPHH HI: Naval Facilities Engineering Command, Hawaii. Final, September.

———. 2021a. *Initial Site Characterization Report, Red Hill Bulk Fuel Storage Facility, JBPHH Oʻahu Hawaiʻi*. JBPHH HI: Commander, Navy Region Hawaii. August.

———. 2021b. *Initial Release Response Report, Pipeline Breach in Tunnel Red Hill Bulk Fuel Storage Facility JBPHH Oʻahu Hawaiʻi*. Prepared by AECOM Technical Services, Inc. JBPHH HI: Naval Facilities Engineering Systems Command, Hawaii. September.

———. 2021c. *Subject: Red Hill Bulk Fuel Storage Facility Request for Information – Addendum, DOH Facility ID No. 9-102271, DOH Release ID No. 210012*. Letter from: J. G. Meyer, Navy Region Hawaii; to: Roxanne Kwan, Hawaii DOH Solid and Hazardous Waste Branch. 5090, SerN45/053. October 1.

———. 2021d. *Quarterly Release Response Report, Pipeline Breach in Tunnel Red Hill Bulk Fuel Storage Facility JBPHH, Oʻahu, Hawaiʻi*. Prepared by AECOM Technical Services, Inc. JBPHH HI: Naval Facilities Engineering Systems Command, Hawaii. December.

———. 2022a. *Preliminary Site Characterization Plan, November 2021 Release, U.S. Navy Well 2254-01, JBPHH, Oʻahu, Hawaiʻi*. Prepared by AECOM Technical Services, Inc. JBPHH HI: Naval Facilities Engineering Systems Command, Hawaii. January.

———. 2022b. *Technical Memorandum, Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release, Red Hill Bulk Fuel Storage Facility JBPHH, Oʻahu, Hawaiʻi*

February 2022. Prepared for NAVFAC Hawaii by AECOM Technical Services, Inc. DOH Facility ID No. 9-102271; DOH Release ID No 20211120_2330. JBPHH HI: Naval Facilities Engineering Systems Command, Hawaii. February.

———. 2022c. *Initial Release Response Report, Fire Suppression Drain Line, Red Hill Bulk Fuel Storage Facility JBPHH, O'ahu, Hawai'i*. Prepared for NAVFAC Hawaii by AECOM Technical Services, Inc. DOH Facility ID No. 9-102271; DOH HEER Incident Release Case No. 20211120-2330. JBPHH HI: Naval Facilities Engineering Systems Command, Hawaii. February 25.

———. 2022d. *Quarterly Release Response Report, May 6 and November 20, 2021 Releases, Red Hill Bulk Fuel Storage Facility, JBPHH, O'ahu, Hawai'i*. Prepared for NAVFAC Hawaii by AECOM Technical Services, Inc. DOH Facility ID No. 9-102271; DOH UST Release ID No. 210012; DOH HEER Release Incident Case Nos. 20210507-0852, 20211120-2330. JBPHH HI: Naval Facilities Engineering Systems Command, Hawaii. April 6.

———. 2022e. *Precipitation Monitoring Memorandum for Sub-Slab Soil Vapor Monitoring Points, Adit 3, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i*. Naval Facilities Engineering Command, Hawaii, JBPHH HI. July.

———. 2022f. *Site Characterization Plan Adit 3 LNAPL Step-Out Addendum November 2021 Release, U.S. Navy Well 2254-01 Red Hill Bulk Fuel Storage Facility Joint Base Pearl Harbor-Hickam Oahu HI*. Prepared by AECOM Technical Services, Inc. JBPHH HI: Naval Facilities Engineering Systems Command, Hawaii. July.

———. 2022g. *Quarterly Release Response Report, May 6 and November 20, 2021 Releases, Red Hill Bulk Fuel Storage Facility, JBPHH, O'ahu, Hawai'i*. Prepared for NAVFAC Hawaii by AECOM Technical Services, Inc. DOH Facility ID No. 9-102271; DOH UST Release ID No. 210012; DOH HEER Release Incident Case Nos. 20210507-0852, 20211120-2330. JBPHH HI: Naval Facilities Engineering Systems Command, Hawaii. July 7.

———. 2022h. *Findings from ROV Inspection #2 Video Review of Red Hill Water Development Tunnel, Red Hill Bulk Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i*. Naval Facilities Engineering Command, Hawaii, JBPHH HI. August.

———. 2022i. *Quarterly Release Response Report, May 6 and November 20, 2021 Releases, Red Hill Bulk Fuel Storage Facility, JBPHH, O'ahu, Hawai'i*. Prepared for NAVFAC Hawaii by AECOM Technical Services, Inc. DOH Facility ID No. 9-102271; DOH UST Release ID No. 210012; DOH HEER Release Incident Case Nos. 20210507-0852, 20211120-2330. JBPHH HI: Naval Facilities Engineering Systems Command, Hawaii. October 3.

Environmental Protection Agency, United States, Region 9; and Department of Health, State of Hawaii (EPA Region 9 and DOH). 2015. *Administrative Order on Consent In the Matter of Red*

Hill Bulk Fuel Storage Facility, EPA Docket No: RCRA 7003-R9-2015-01; DOH Docket No: 15-UST-EA-01. September.

Giambelluca, T. W., M. A. Nullet, and T. A. Schroeder. 1986. *Rainfall Atlas of Hawaii*. Report R76. Honolulu, HI: Department of Land and Natural Resources, Division of Water and Land Development. June.

hydroGEOPHYSICS, Inc. (HGI). 2022. *Red Hill Bulk Fuel Storage Facility Lower Access Tunnel Pilot Geophysical Investigation - Hawaii*. RPT-2022-004, Rev. 1. Prepared for AECOM. Irvine, CA. April.

Hunt Jr., C. D. 1996. *Geohydrology of the Island of Oahu, Hawaii*. Professional Paper 1412-B. Regional Aquifer-System Analysis—Oahu, Hawaii. U.S. Geological Survey.

Izuka, S. K. 1992. *Geology and Stream Infiltration of North Halawa Valley, Oahu, Hawaii*. Prepared in cooperation with the State of Hawaii Department of Transportation. Honolulu, HI. Water-Resources Investigations Report 91-4197. U.S. Geological Survey.

Izuka, S. K., J. A. Engott, K. Rotzoll, M. Bassiouni, A. G. Johnson, L. D. Miller, and A. Mair. 2018. *Volcanic Aquifers of Hawai'i—Hydrogeology, Water Budgets, and Conceptual Models*. Ver. 2.0, March 2018. Scientific Investigations Report 2015–5164. Water Availability and Use Science Program. U.S. Geological Survey.

Juvik, S. P., and J. O. Juvik, eds. 1998. *Atlas of Hawaii*. Honolulu, HI: University of Hawaii Press.

Macdonald, G. A., A. T. Abbott, and F. L. Peterson. 1983. *Volcanoes in the Sea: The Geology of Hawaii*. 2nd ed. Honolulu, HI: University of Hawaii Press.

United States Department of Agriculture, Soil Conservation Service (USDA SCS). 1972. *Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii*. In cooperation with the University of Hawaii Agricultural Experiment Station. Washington, DC. August. https://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/?stateId=HI.

Wentworth, C. K., and G. A. Macdonald. 1953. *Structures and Forms of Basaltic Rocks in Hawaii*. Geological Survey Bulletin 994. U.S. Geological Survey.

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Appendix A – Soil Vapor Results

A.1 – AOC Soil Vapor Sampling Results, January 2014 through October 2022

A.2 – Summary of NOI Soil Vapor PID Concentrations

A.3 – NOI Soil Vapor Chromatograms

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Appendix A.1 – AOC Soil Vapor Measurements Collected Below Tanks, January 2014 through October 2022

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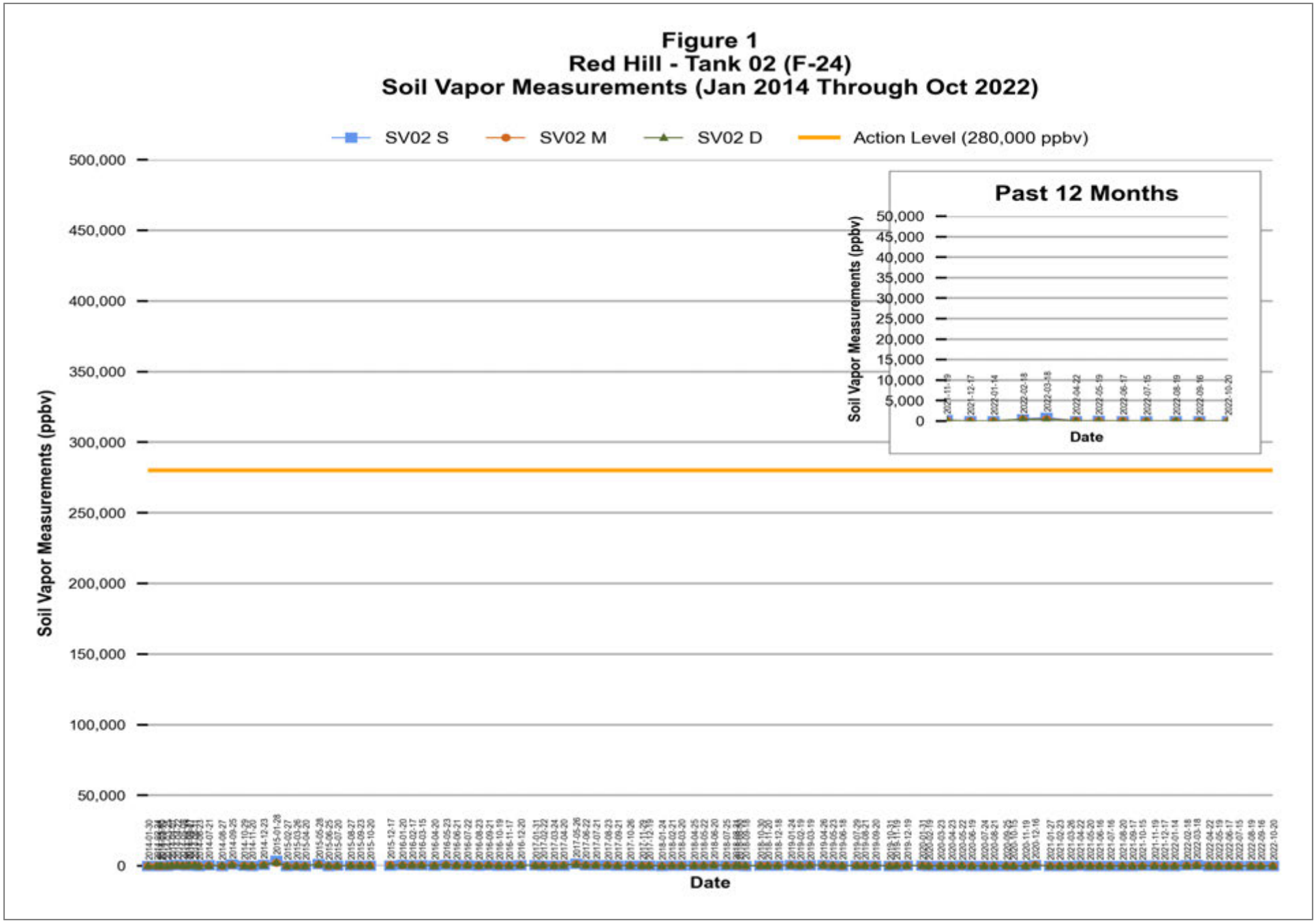
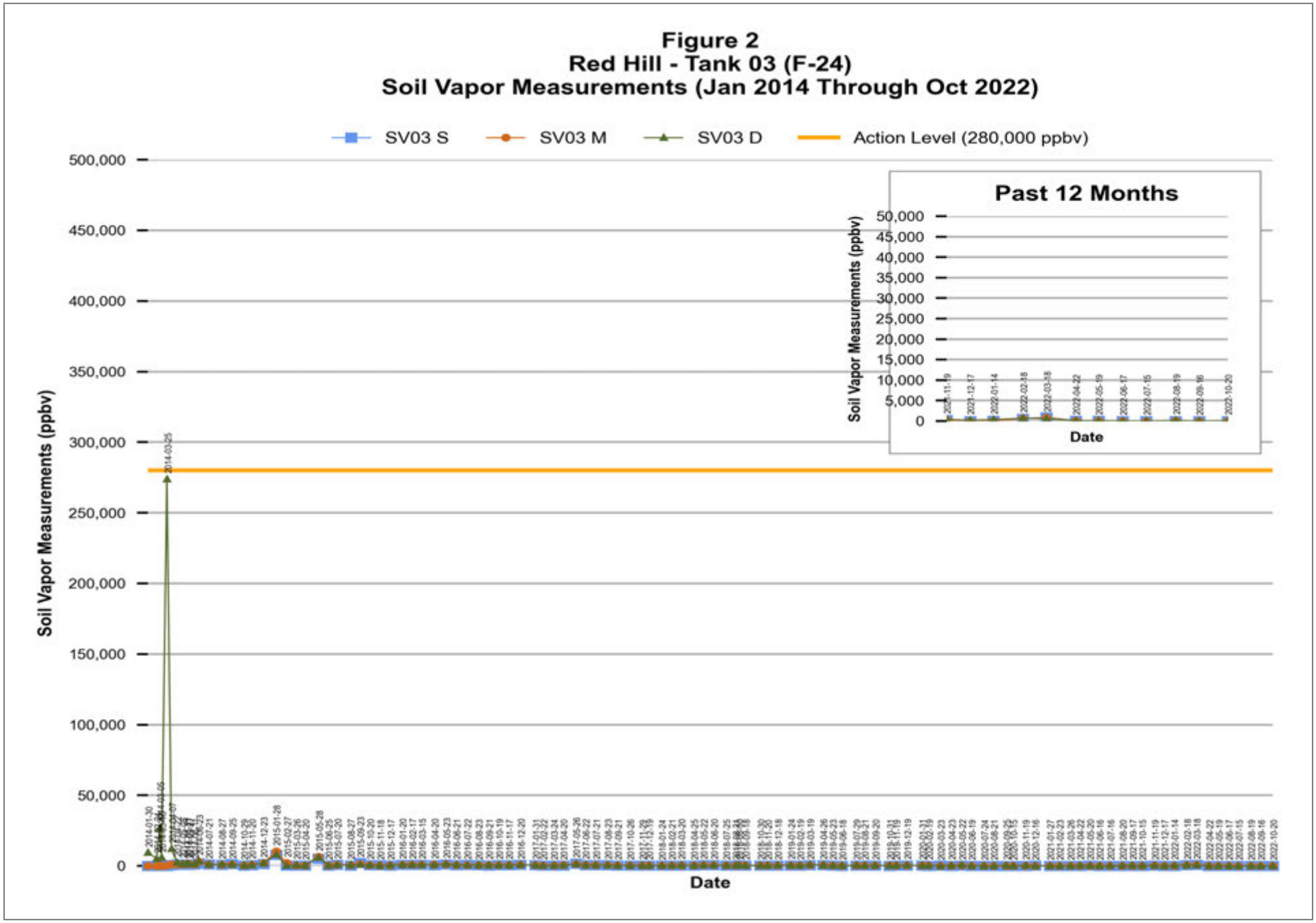


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

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

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



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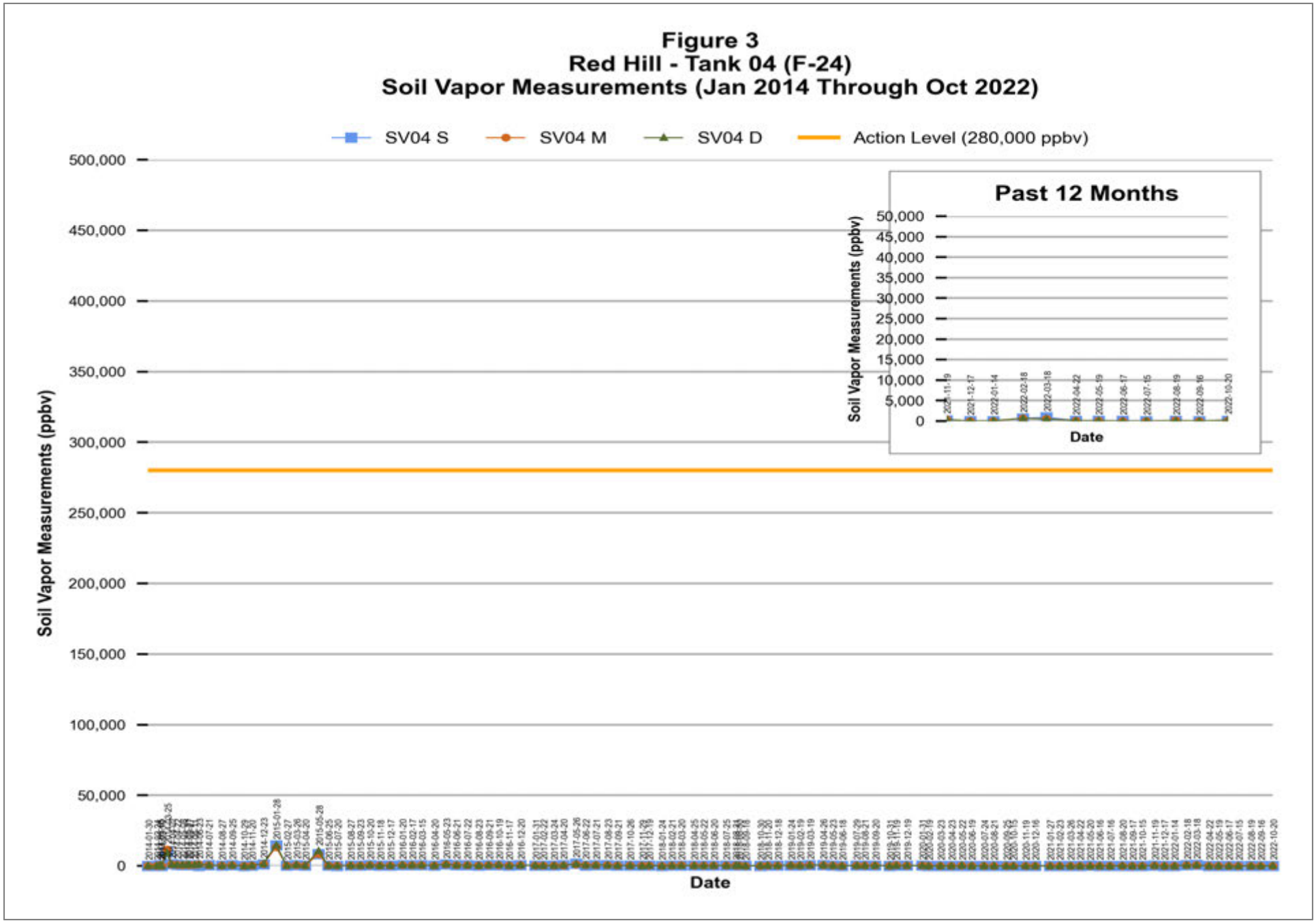
ppbv: Parts Per Billion by Volume



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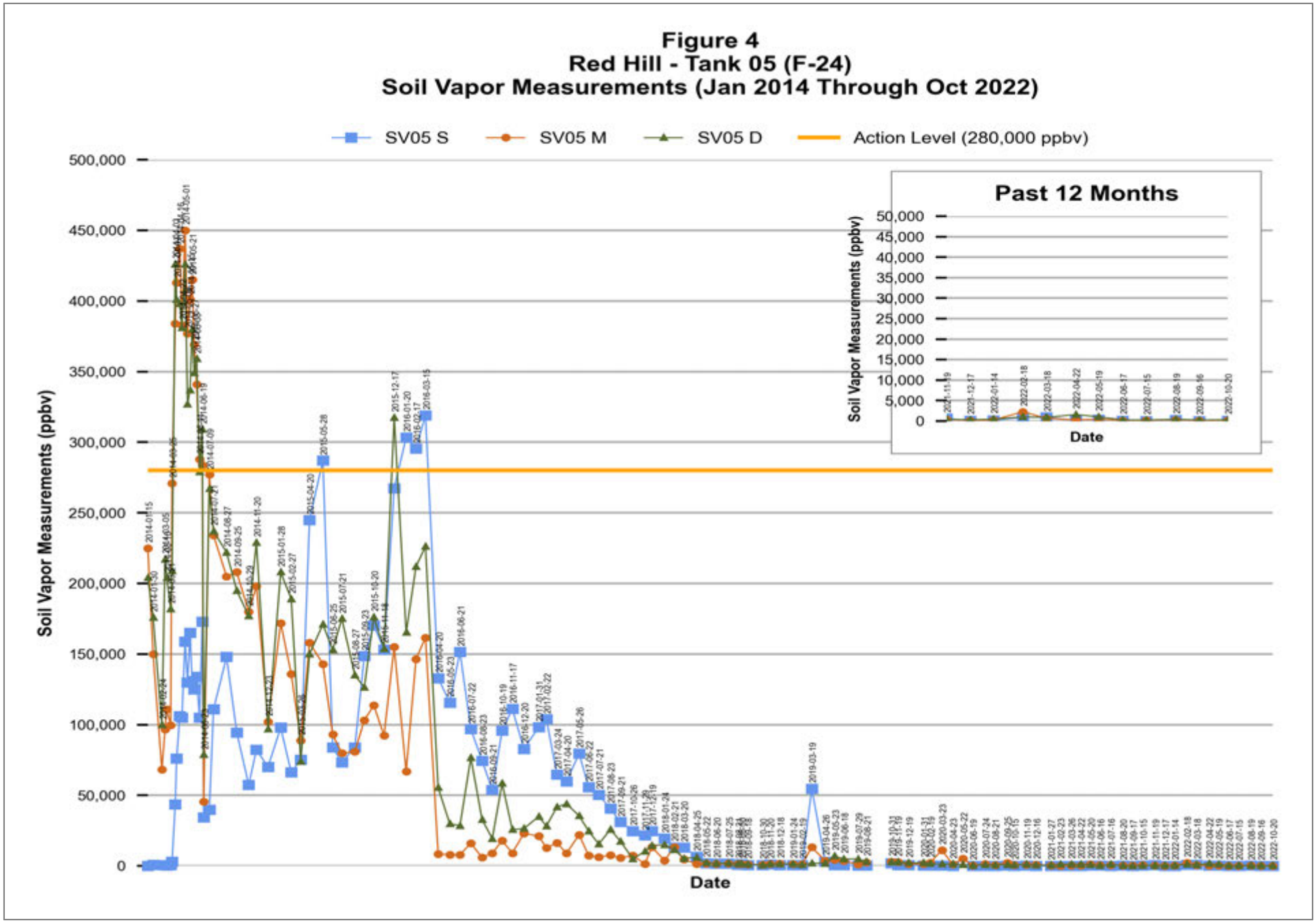
ppbv: Parts Per Billion by Volume



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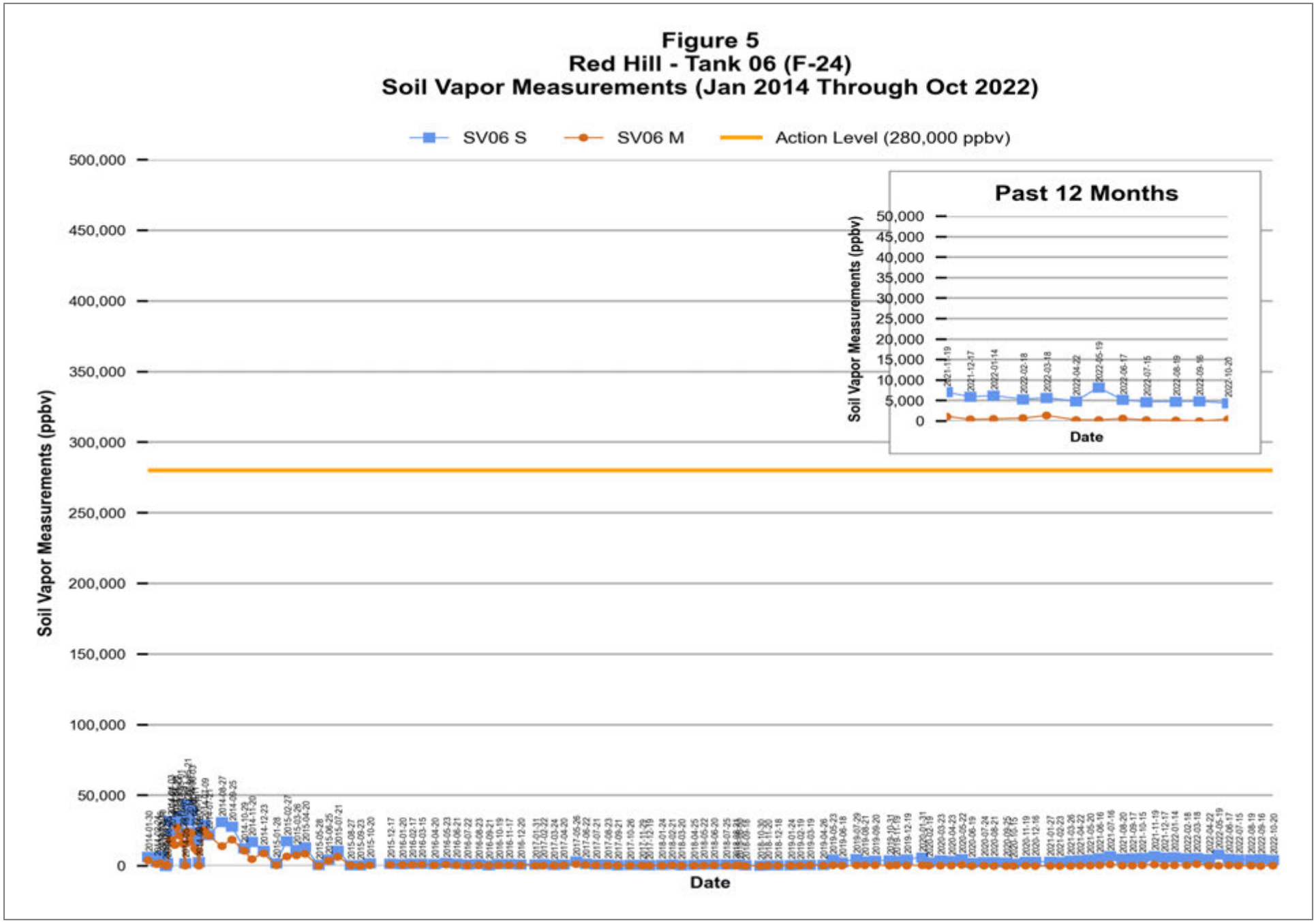
ppbv: Parts Per Billion by Volume



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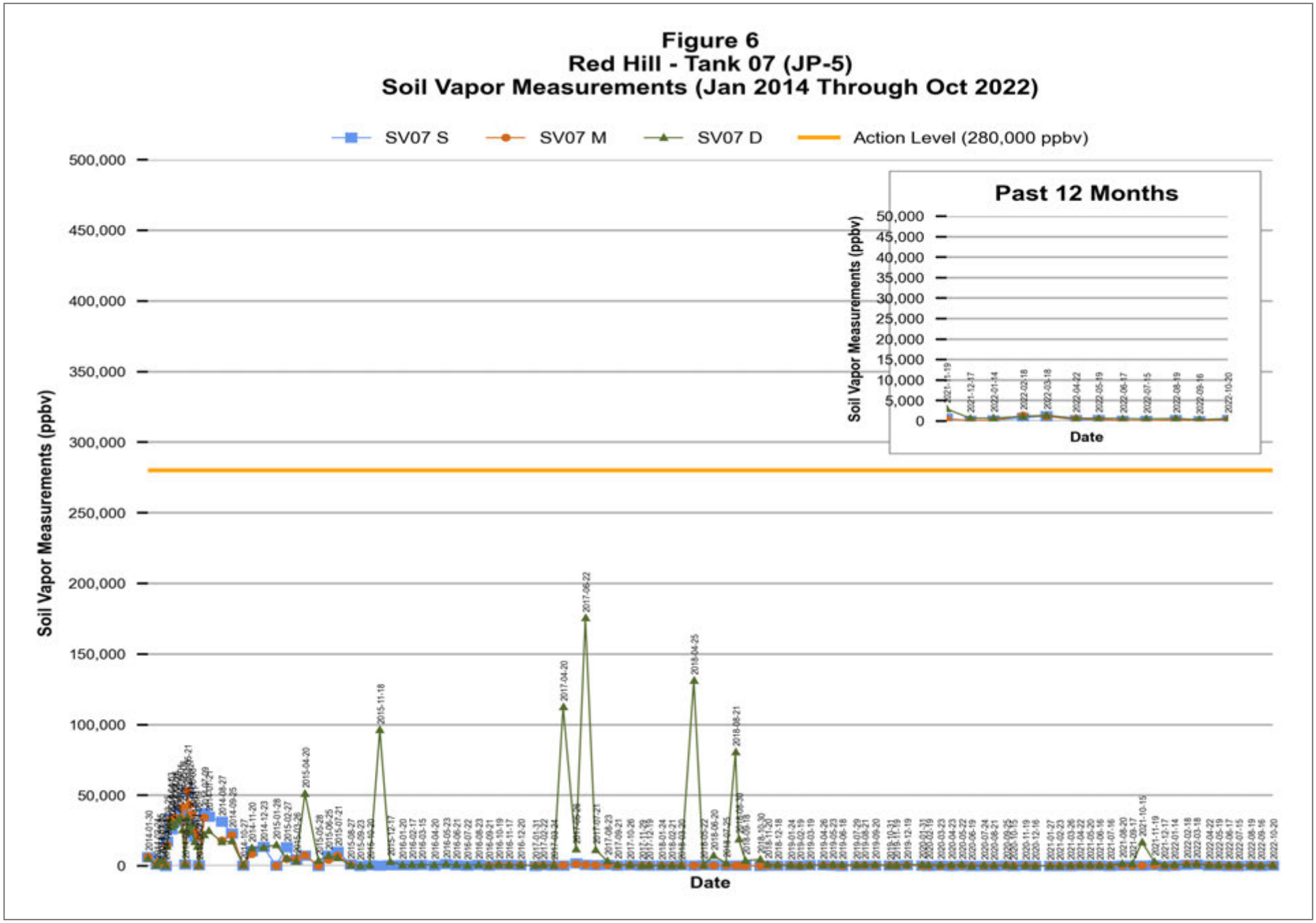
JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume



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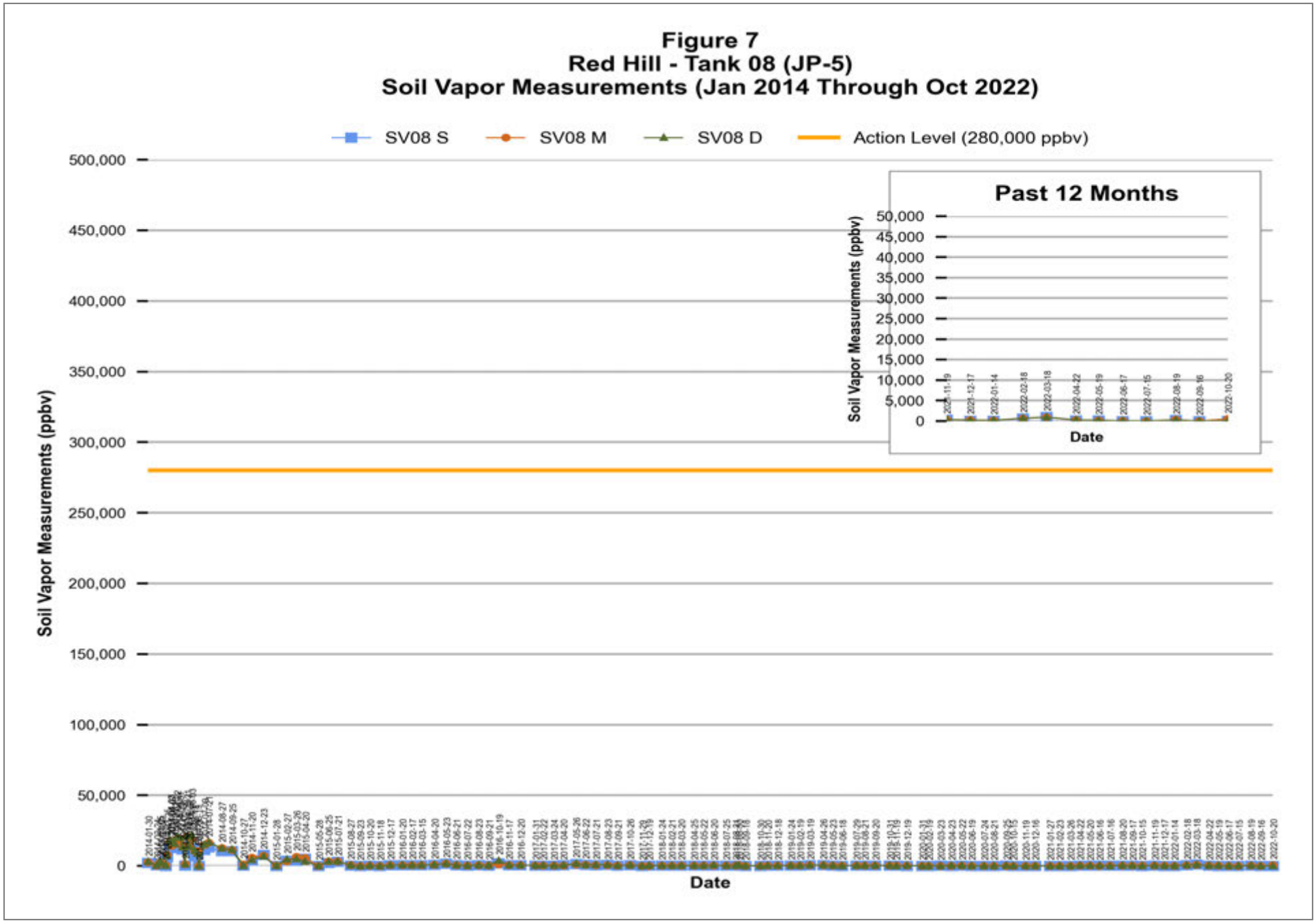
JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume



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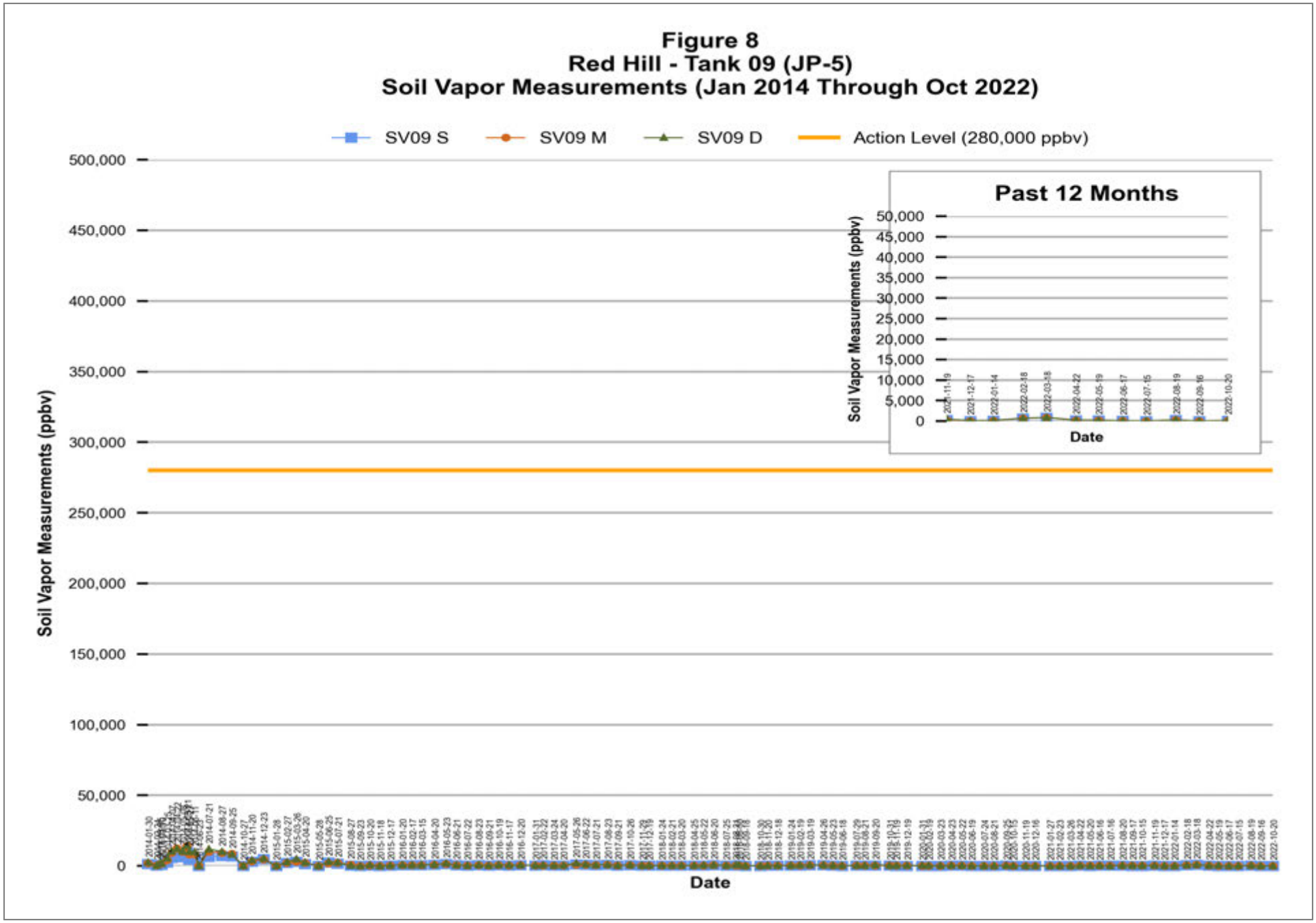
JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume



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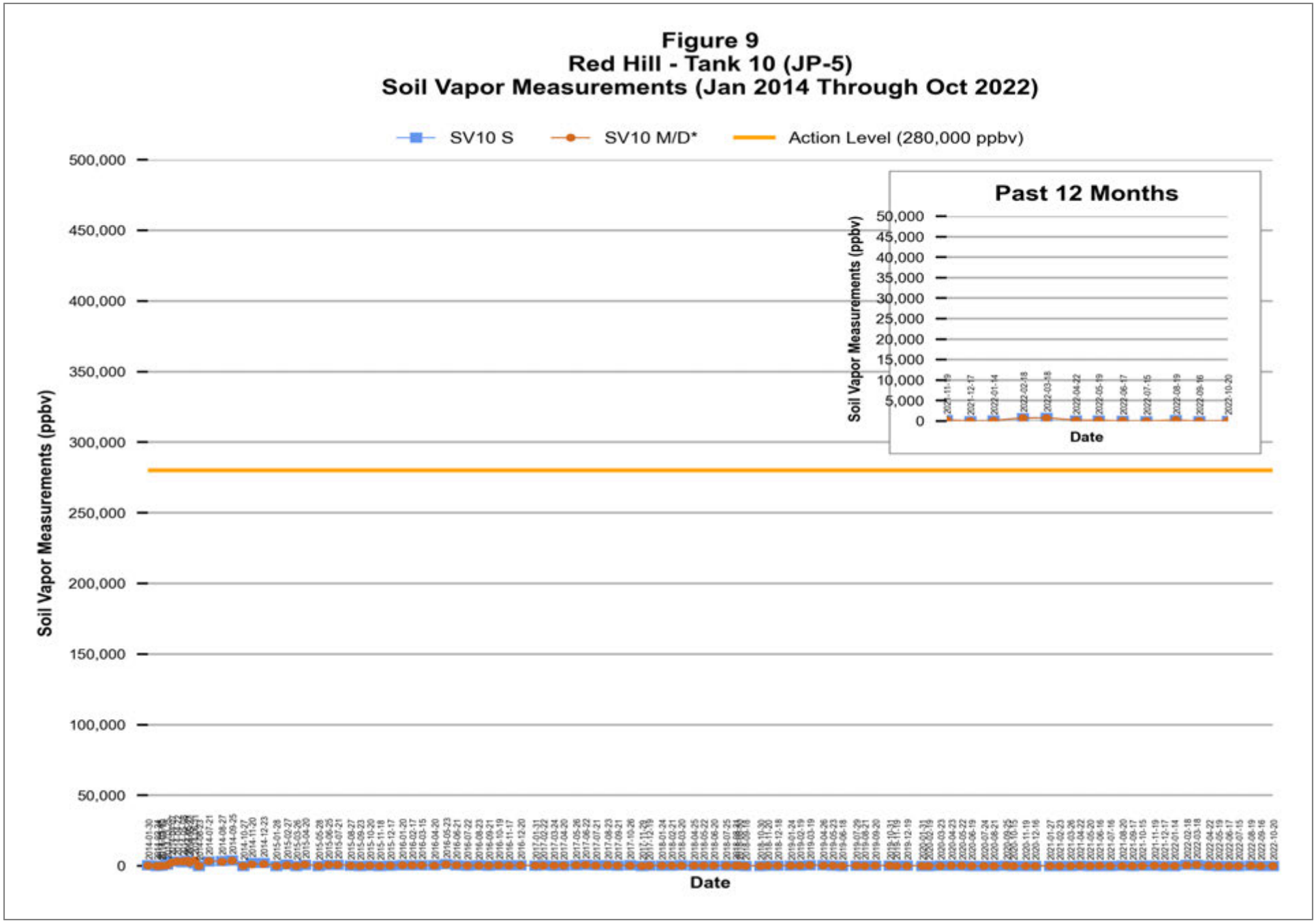

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JP-5: Jet Fuel, Propellant Number 5
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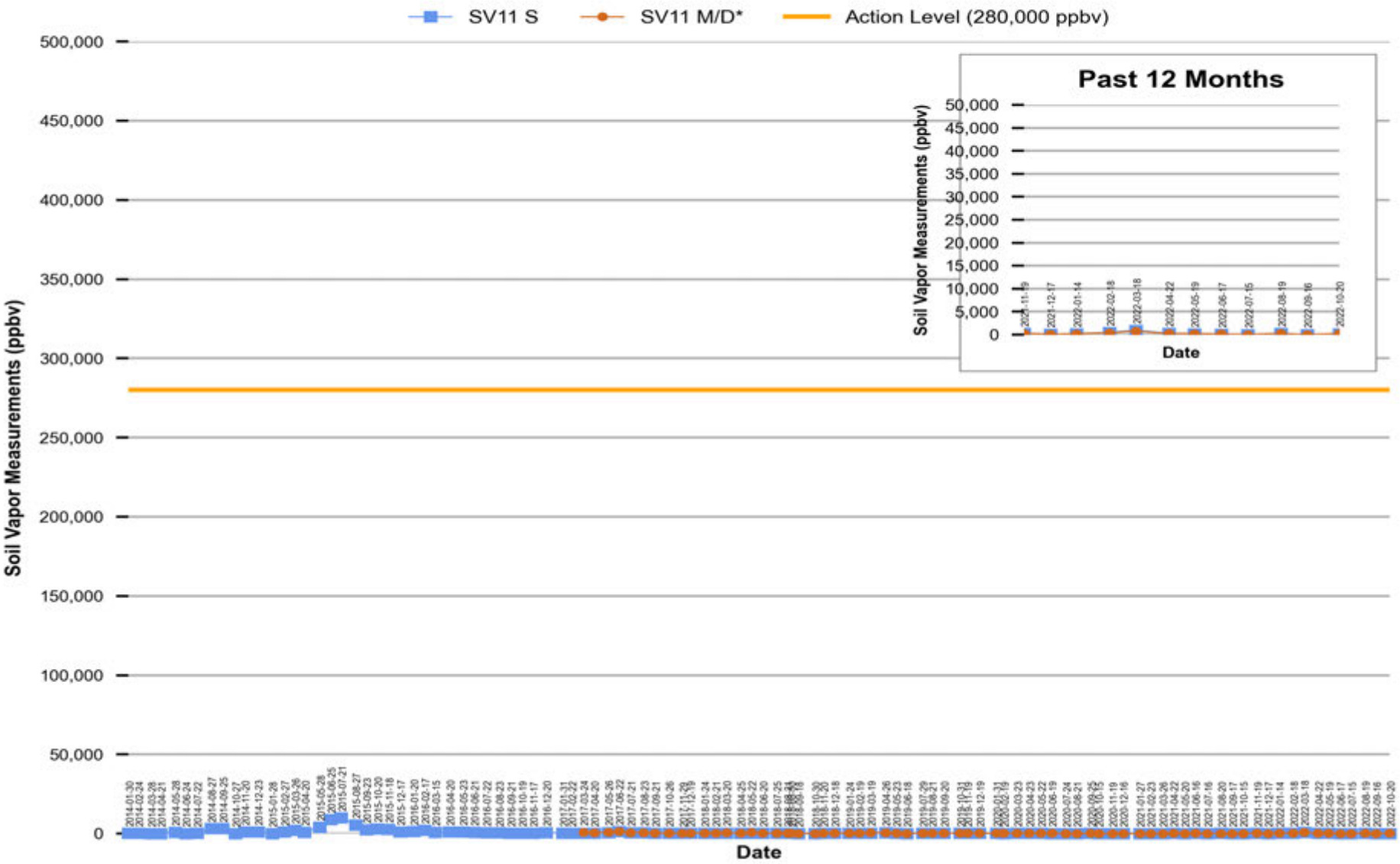
Figure 10
Red Hill - Tank 11 (JP-5)
Soil Vapor Measurements (Jan 2014 Through Oct 2022)



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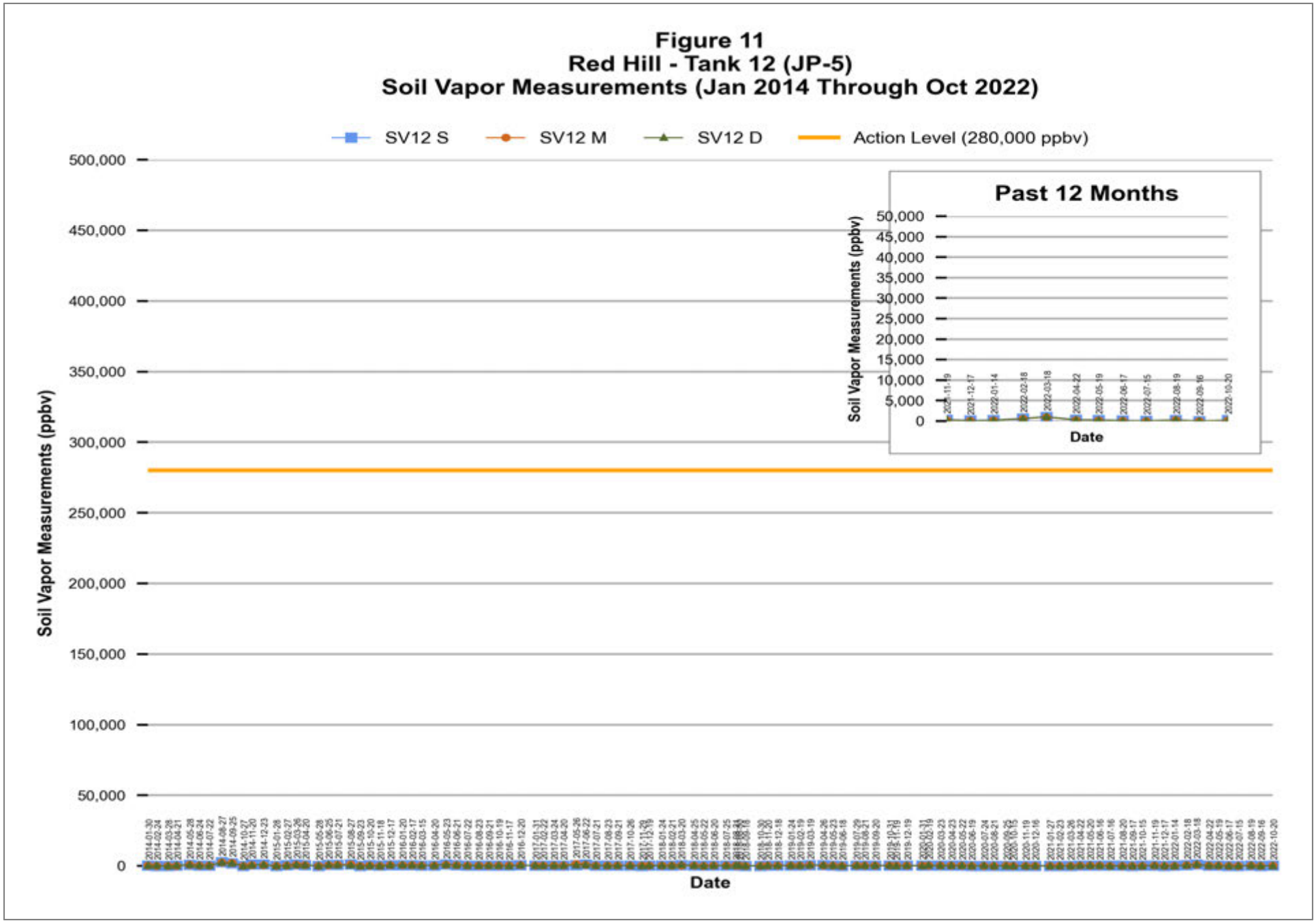
JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume



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F-24: Jet Fuel, Fuel Number 24
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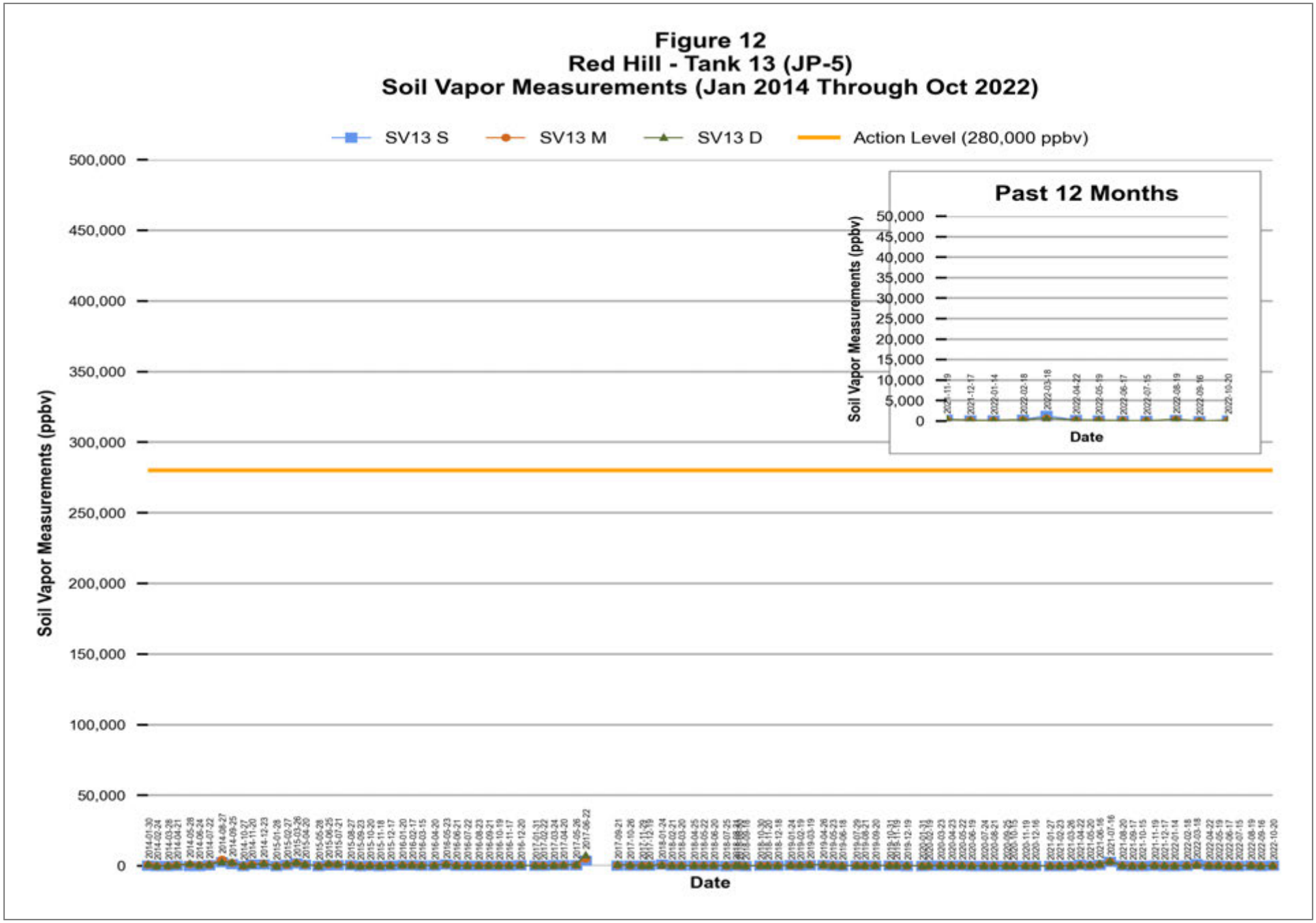
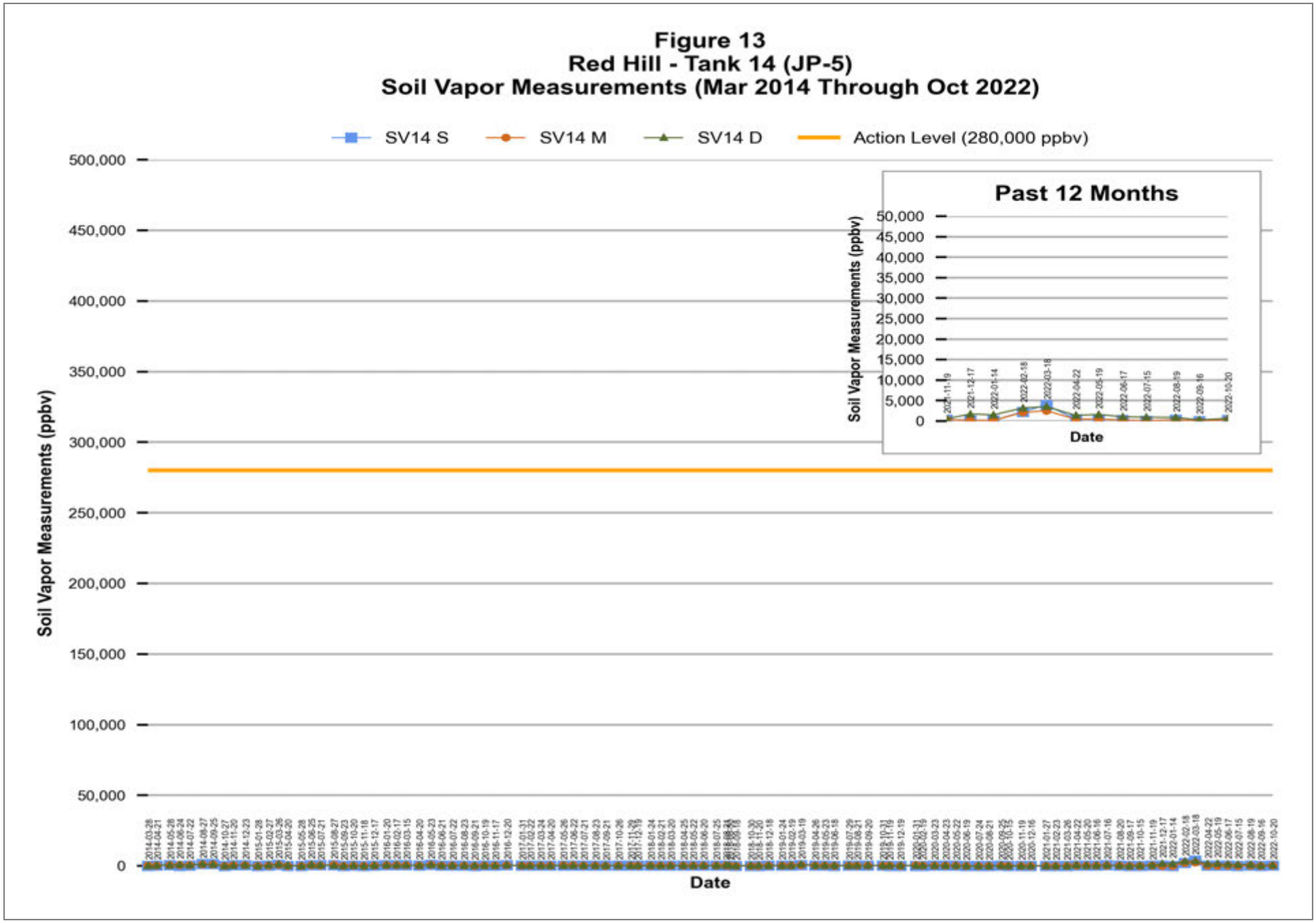
JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume



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

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

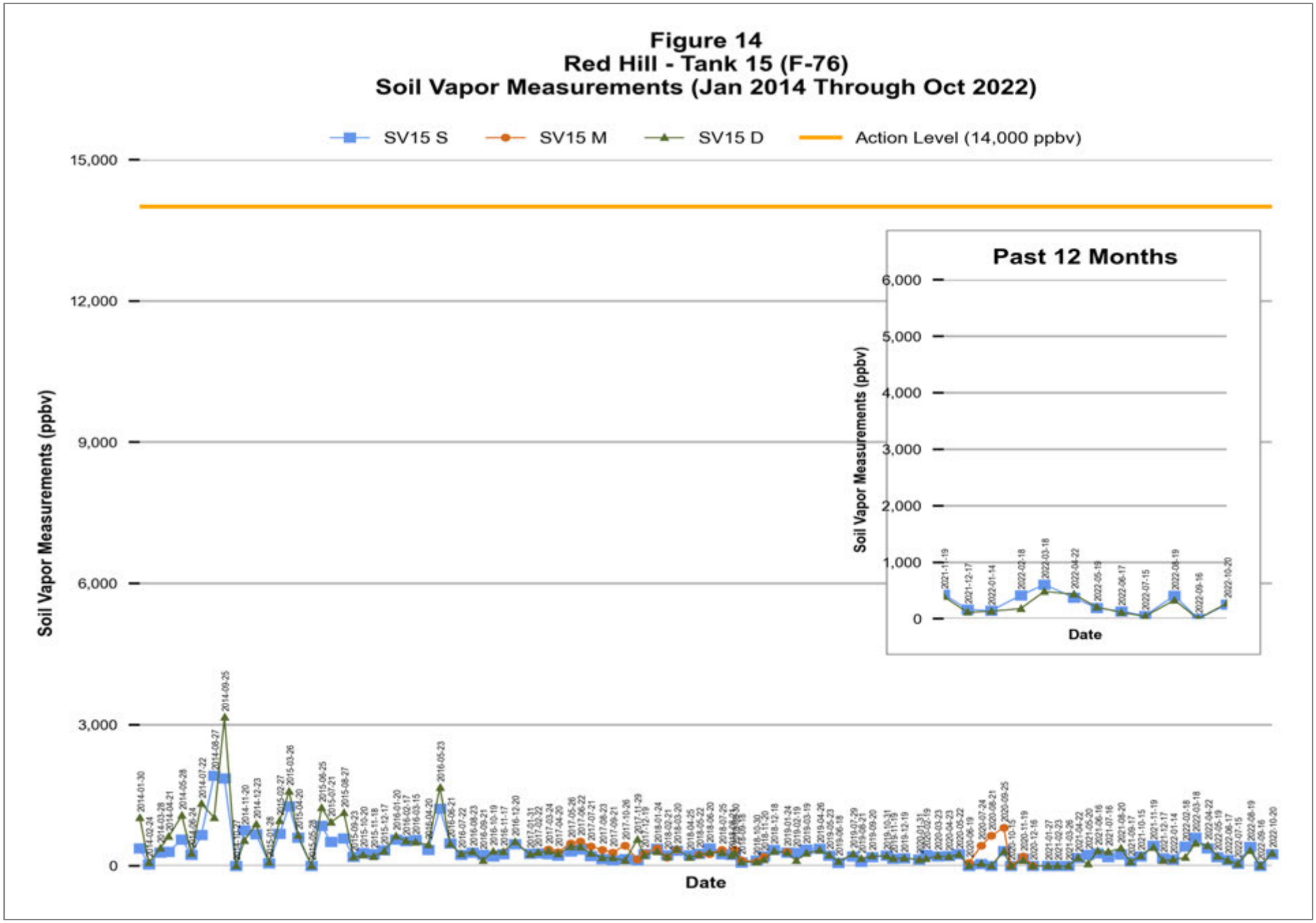
JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume



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

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

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



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JP-5: Jet Fuel, Propellant Number 5
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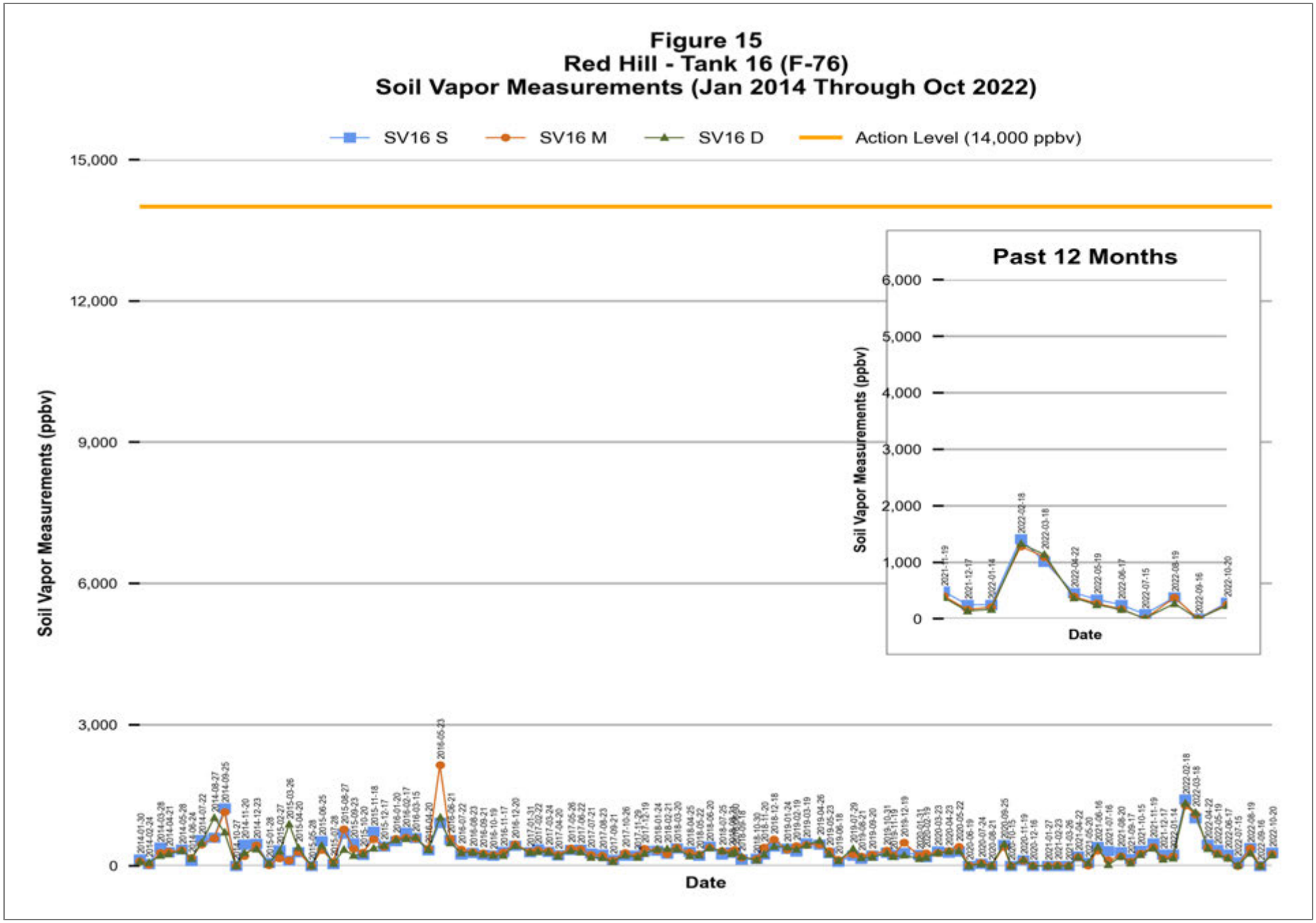

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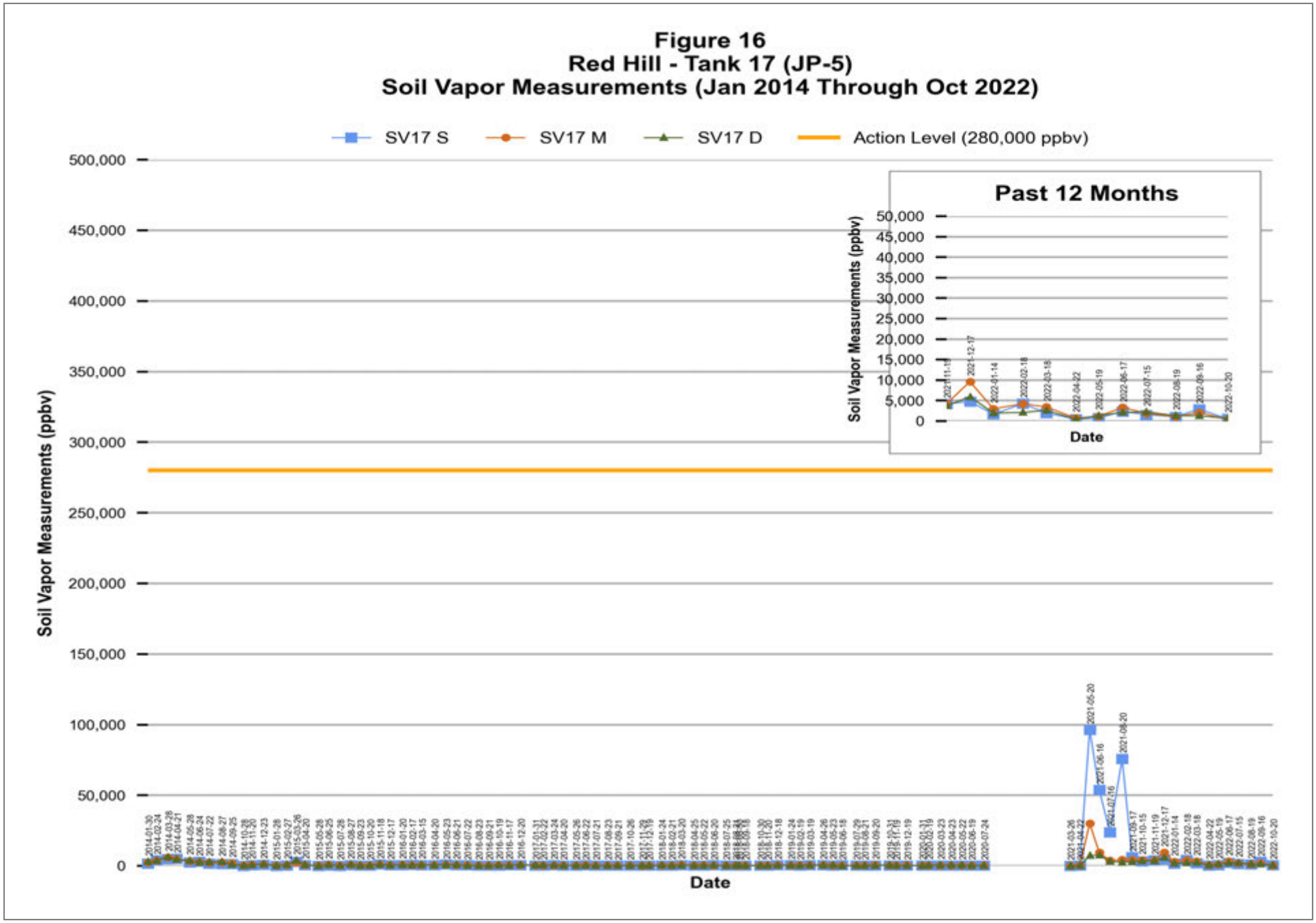
F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

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



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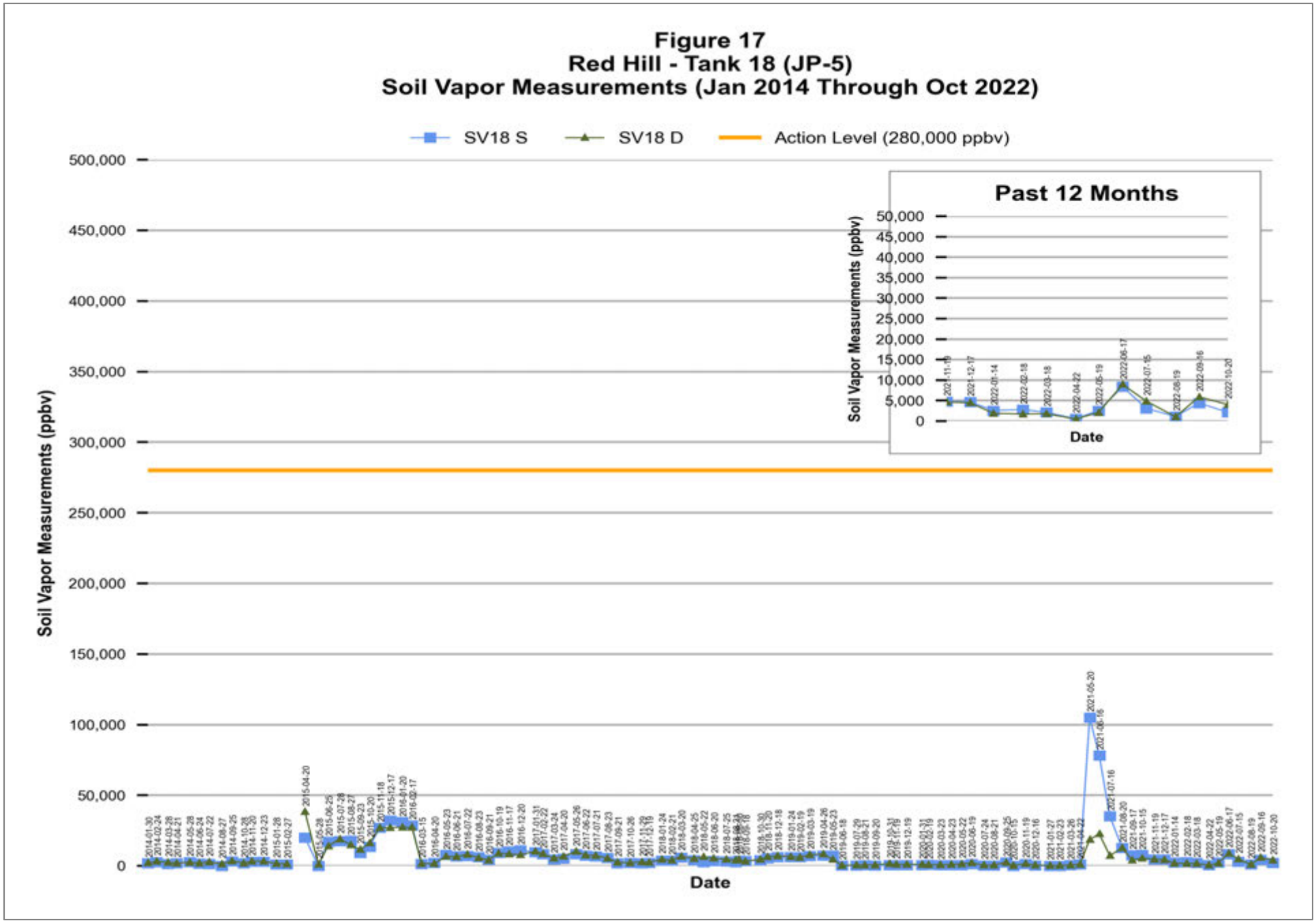

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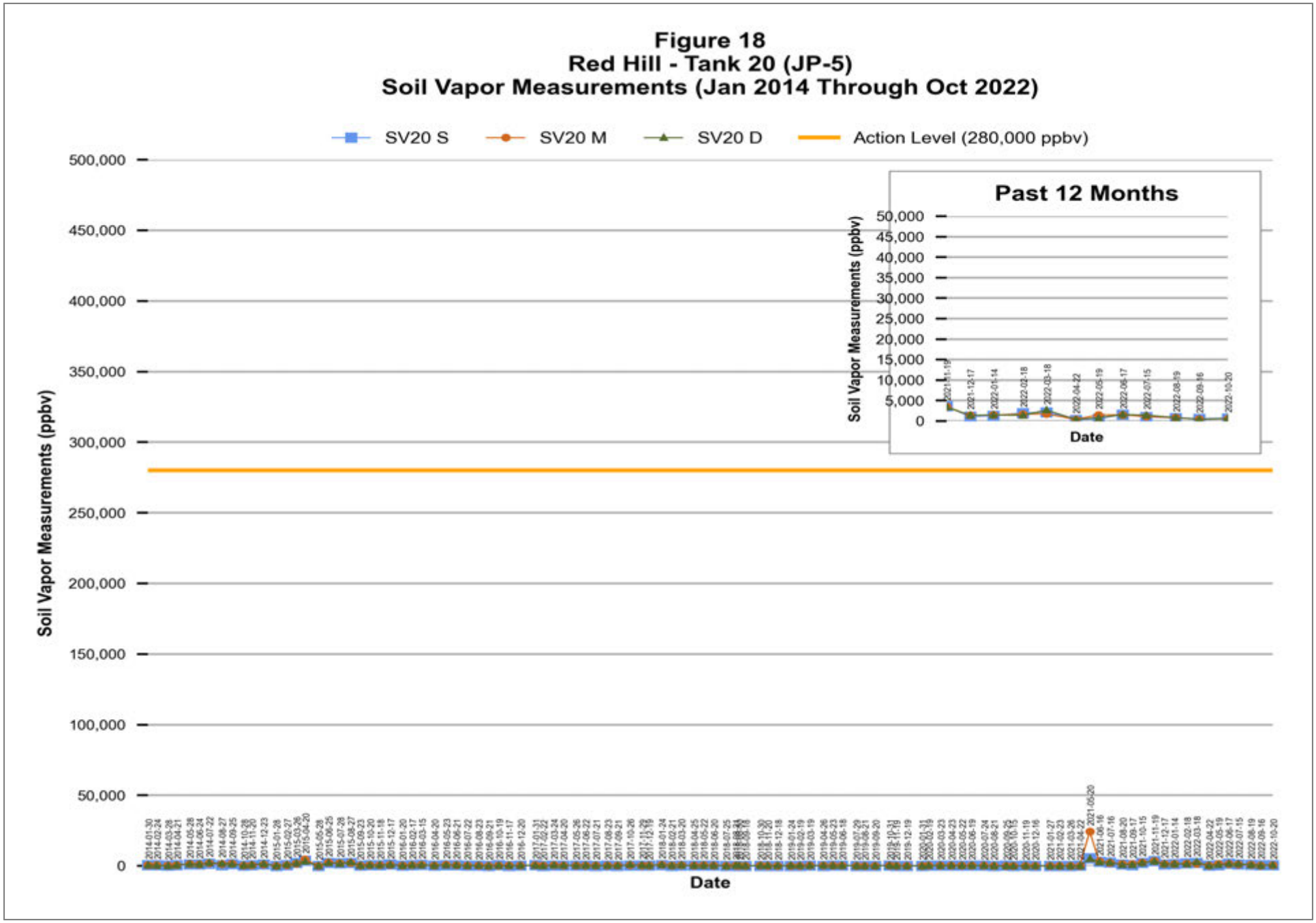

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F-76: Marine Diesel, Fuel Number 76

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

Appendix A.2 – NOI Soil Vapor PID Concentrations

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

Appendix A.3: Average Soil Vapor PID Concentration Readings at Tanks 2-18 and 20 (ppbv)

Date	SV02 S	SV02 M	SV02 D	SV03 S	SV03 M	SV03 D	SV04 S	SV04 M	SV04 D	SV05 S	SV05 M	SV05 D	SV06 S	SV06 M	SV07 S	SV07 M
2021-05-10	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-11	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-14	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-15	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-16	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-17	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-19	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-20	87	77	85	199	191	252	239	132	108	339	1,103	1,002	4,776	310	414	166
2021-05-21	197	97	792	94	177	170	128	46	132	580	776	691	5,021	416	408	322
2021-05-22	512	425	466	513	428	419	2,108	532	644	688	1,199	620	5,238	864	2,428	633
2021-05-23	229	160	115	125	141	158	102	121	163	220	729	540	3,647	449	513	254
2021-05-24	236	237	186	219	214	227	172	204	217	239	775	595	4,906	418	467	331
2021-05-25	279	250	265	218	236	267	179	213	296	456	806	693	3,869	529	554	290
2021-05-26	309	226	253	376	315	343	201	239	384	317	688	2,601	3,557	589	650	309
2021-05-27	170	143	201	435	173	177	80	107	125	349	929	336	4,270	521	1,134	226
2021-05-28	368	215	288	579	357	370	402	408	454	459	1,112	878	4,917	427	1,135	431
2021-05-29	570	535	489	734	667	617	554	559	649	714	1,121	979	4,926	787	1,625	694
2021-05-30	413	777	289	544	462	591	549	606	591	705	1,139	1,183	3,555	1,017	1,426	881
2021-05-31	0	0	0	0	0	0	0	0	0	0	53	187	5,365	60	438	137
2021-06-01	155	56	148	126	116	220	189	70	254	215	563	436	3,357	274	438	170
2021-06-02	30	22	27	102	33	131	35	51	92	228	584	500	3,899	491	793	387
2021-06-03	517	312	377	484	468	619	488	539	555	639	1,034	773	4,563	718	933	540
2021-06-04	371	273	253	307	316	348	329	317	363	391	787	782	4,676	814	762	458
2021-06-05	0	0	0	0	0	0	0	0	0	0	0	0	4,195	0	0	0
2021-06-06	209	62	124	173	138	219	212	136	213	321	704	380	3,526	515	392	227
2021-06-07	143	44	50	171	124	217	213	288	288	384	716	635	4,077	482	507	324
2021-06-08	89	23	102	105	178	243	186	247	275	284	668	704	4,594	415	291	267
2021-06-09	246	172	158	222	284	249	241	223	320	295	813	383	5,471	632	293	308
2021-06-14	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-06-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-06-21	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-06-24	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-06-28	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-01	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-06	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-08	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-15	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-19	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-22	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-02	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-05	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-09	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-16	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-19	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-23	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-26	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-30	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-02	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-09	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-16	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-20	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-23	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-27	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-30	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-04	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-14	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-21	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-25	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-28	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-01	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-04	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-08	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-11	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-15	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-22	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-29	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-12-02	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-12-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-12-20	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-12-30	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-04	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-06	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-10	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-17	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-20	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-24	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-27	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-31	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-02-03	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-02-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-02-10	130	82	95	189	146	356	133	91	148	252	292	449	5,674	357	240	175
2022-02-17	258	582	256	380	406	527	403	598	397	857	1,157	1,050	6,364	924	4,503	787
2022-02-22	898	893	880	1,174	1,143	1,133	938	1,025	1,069	1,546	1,537	2,991	5,729	1,416	1,408	1,947
2022-02-28	656	567	491	742	660	804	815	719	581	848	1,137	877	5,471	1,648	915	1,040
2022-03-08	512	473	455	598	568	834	705	537	673	807	866	758	5,250	1,111	986	975
2022-03-15	462	389	372	572	477	640	528	565	613	821	1,073	1,073	5,800	1,345	865	762
2022-03-22	224	258	157	181	216	362	100	84	97	162	237	449	5,248	428	235	264
2022-03-30	58	20	18	73	52	140	63	105	140	587	505	446	5,429	414	246	259
2022-04-06	236	182	168	214	202	754	236	355	274	3,354	548	578	4,728	448	425	511
2022-04-13	0	0	0	0	0	0	0	0	0	0	144	285	5,868	236	0	0
2022-04-20	0	8	0	9	1	49	6	11	27	87	148	258	4,914	252	137	141
2022-04-26	0	0	0	0	0	6	0	0	0	0	1	191	6,625	871	139	73
2022-05-03	34	23	5	18	21	397	31	53	56	1,671	225	973	4,874	251	198	419
2022-05-10	0	0	0	23	2	4	10	17	44	164	775	843	4,334	113	153	383
2022-05-18	0	0	0	0	0	0	0	0	0	17	58	261	3,812	175	48	36
2022-05-25	113	65	59	120	88	128	102	113	125	232	605	440	3,951	347	235	512
2022-06-01	3	1	1	2	3	2	1	6	13	116	154	334	5,577	436	157	164
2022-06-08	0	0	0	0	0	0	0	0	0	0	0	0	0	33	55	54
2022-06-15	9	72	1	8	3	56	6	7	26	150	167	308	5,072	346	0	0
2022-06-22	0	0	0	0	0	1	0	0	0	0	41	51	4,708	316	19	95

Date	SV07 D	SV08 S	SV08 M	SV08 D	SV09 S	SV09 M	SV09 D	SV10 S	SV10 M/D	SV11 S	SV11 M/D	SV12 S	SV12 M	SV12 D	SV13 S	SV13 M	SV13 D	SV14 S	SV14 M
2021-05-10	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	252	347	201	0	0
2021-05-11	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1,896	1,014	930	702	480
2021-05-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0
2021-05-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1,623	1,202	1,024	1,164	813
2021-05-14	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1,568	1,322	1,423	1,095	1,057
2021-05-15	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	961	973	1,013	687	612
2021-05-16	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	313	241	534	70	0
2021-05-17	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	2,180	1,153	1,000	601	797
2021-05-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	297	231	385	165	177
2021-05-19	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	480	445	443	524	379
2021-05-20	491	196	203	238	137	271	173	177	24	171	127	304	236	200	199	446	481	246	430
2021-05-21	7,201	253	275	298	413	370	318	236	214	348	382	530	320	232	1,123	557	721	258	242
2021-05-22	3,915	602	660	753	603	665	778	646	579	613	559	1,178	642	619	937	847	1,066	845	806
2021-05-23	1,461	255	303	317	205	317	288	234	1,237	215	161	456	247	277	442	356	401	187	NC4
2021-05-24	2,210	417	425	491	494	465	491	462	468	497	598	963	529	507	599	651	887	669	NC4
2021-05-25	2,248	285	281	285	410	403	462	450	456	502	572	779	532	508	694	684	1,083	882	NC4
2021-05-26	1,474	461	549	692	386	320	393	524	368	609	564	1,960	676	595	809	708	1,184	565	NC4
2021-05-27	749	285	296	465	335	363	294	285	196	351	381	568	351	488	247	327	1,062	62	536
2021-05-28	874	637	548	613	634	585	606	419	489	503	458	942	556	402	831	803	947	419	563
2021-05-29	1,037	698	685	675	730	632	673	598	633	679	596	1,588	633	588	2,585	966	1,051	768	634
2021-05-30	1,011	835	760	786	834	768	802	673	549	749	665	1,066	729	506	NC1	NC1	NC1	631	634
2021-05-31	85	0	30	7	0	0	0	0	0	0	0	0	0	0	1,002	832	1,428	0	0
2021-06-01	378	310	262	267	172	247	222	152	191	172	146	202	263	198	NC1	NC1	NC1	233	177
2021-06-02	590	364	368	442	313	347	372	307	257	300**	283**	358**	260**	211**	NC1	NC1	NC1	327**	300**
2021-06-03	914	610	519	698	703	570	515	486	480	606	477	606	339	456	1,017	1,324	1,069	610	408
2021-06-04	749	607	601	674	822	878	1,065	720	506	698	666	667	547	586	1,518	1,518	1,545	788	593
2021-06-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215	125	169	0	0
2021-06-06	500	269	256	264	249	210	231	158	150	181	159	243	149	152	611	634	776	220	208
2021-06-07	689	418	318	466	320	380	539	316	314	426	351	405	334	344	842	1,034	1,015	460	407
2021-06-08	570	341	327	391	311	390	508	315	290	297	299	375	309	319	1,010	1,016	1,101	375	713
2021-06-09	480	288	269	344	253	237	278	218	232	227	223	291	219	204	809	911	889	274	265
2021-06-14	NC	NC	NC	NC	NC	NC	NC	NC	NC	30	10	93	27	20	581	925	806	202	124
2021-06-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	95	148	215	92	201	1,764	1,787	1,487	480	329
2021-06-21	NC	NC	NC	NC	NC	NC	NC	NC	NC	163	112	199	176	133	945	934	1,169	264	263
2021-06-24	NC	NC	NC	NC	NC	NC	NC	NC	NC	63	49	103	97	77	422	487	1,141	186	159
2021-06-28	NC	NC	NC	NC	NC	NC	NC	NC	NC	117	152	235	150	139	1,199	1,712	1,968	415	262
2021-07-01	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	1,007	1,306	1,328	143	783
2021-07-06	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	1	0	0	2,455	1,989	1,849	2	5
2021-07-08	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	1,339	2,056	2,113	104	74
2021-07-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	155	319	224	177	727	2,138	2,077	4,532	314	307
2021-07-15	NC	NC	NC	NC	NC	NC	NC	NC	NC	0**	0**	14**	0**	0**	1,401**	1,741**	2,138**	126**	122**
2021-07-19	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	2,557	3,109	3,030	0	0
2021-07-22	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	1,668	2,069	1,806	7	22
2021-08-02	NC	NC	NC	NC	NC	NC	NC	NC	NC	190	176	344	241	225	1,674	1,502	1,806	492	348
2021-08-05	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	649	795	840	0	0
2021-08-09	NC	NC	NC	NC	NC	NC	NC	NC	NC	80	102	206	93	102	1,281	1,080	1,311	259	269
2021-08-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	191	289	178	0	0
2021-08-16	NC	NC	NC	NC	NC	NC	NC	NC	NC	5	6	110	0	1	612	769	539	398	69
2021-08-19	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	30	0	7	681	581	604	54	55
2021-08-23	NC	NC	NC	NC	NC	NC	NC	NC	NC	121	98	171	113	118	164	164	109	137	103
2021-08-26	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	0	0	0	0	172
2021-08-30	NC	NC	NC	NC	NC	NC	NC	NC	NC	102	97	102	53	15	215	228	328	329	131
2021-09-02	NC	NC	NC	NC	NC	NC	NC	NC	NC	77	51	143	44	66	108	143	204	159	145
2021-09-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	2	8	31	36	0
2021-09-09	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	1	31	104	40	23
2021-09-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	72	57	147	84	84	90	124	175	150	151
2021-09-16	NC	NC	NC	NC	NC	NC	NC	NC	NC	29	34	0	0	0	2	1	36	0	16
2021-09-20	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	0	0	8	44	0
2021-09-23	NC	NC	NC	NC	NC	NC	NC	NC	NC	11	12	87	32	71	74	96	130	117	99
2021-09-27	NC	NC	NC	NC	NC	NC	NC	NC	NC	19	15	95	17	18	44	57	111	103	82
2021-09-30	NC	NC	NC	NC	NC	NC	NC	NC	NC	19	22	56	0	0	0	27	17	10	6
2021-10-04	NC	NC	NC	NC	NC	NC	NC	NC	NC	10	46	92	4	44	65	115	183	89	60
2021-10-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	7	22	103	26	30	50	43	87	69	68
2021-10-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	7	71	1	0	105	92	156	71	52
2021-10-14	NC	NC	NC	NC	NC	NC	NC	NC	NC	231	252	313	234	224	291	293	368	352	323
2021-10-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	29	0	1	0	0	32	292	290
2021-10-21	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	0	0	5	0	0
2021-10-25	NC	NC	NC	NC	NC	NC	NC	NC	NC	14	27	66	13	24	861	948	1,421	198	132
2021-10-28	NC	NC	NC	NC	NC	NC	NC	NC	NC	25	5	82	21	16	33	43	112	25	45
2021-11-01	NC	NC	NC	NC	NC	NC	NC	NC	NC	39	77	107	11	38	78	63	106	NC1	NC1
2021-11-04	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	31	44	77	13	1
2021-11-08	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	5	0	30	44	46
2021-11-11	NC	NC	NC	NC	NC	NC	NC	NC	NC	79	91	179	80	69	140	137	227	124	99
2021-11-15	NC	NC	NC	NC	NC	NC	NC	NC	NC	63	35	69	8	6	13	23	57	42	35
2021-11-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	36	75	107	40	29	90	103	170	73	96
2021-11-22	NC	NC	NC	NC	NC	NC	NC	NC	NC	96	100	139	106	115	148	183	263	153	128
2021-11-29	NC	NC	NC	NC	NC	NC	NC	NC	NC	73	75	106	36	47	77	61	99	78	77
2021-12-02	NC	NC	NC	NC	NC	NC	NC	NC	NC	45	43	81	7	2	136	133	151	188	246
2021-12-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	86	94	177	124	100	167	159	217	170	134
2021-12-20	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	0	0	0	0	0
2021-12-30	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	0	0	0	0	0
2022-01-04	NC	NC	NC	NC	NC	NC	NC	NC	NC	57	68	121	39	62	59	88	124	165	114
2022-01-06	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	34	0	0	18	19	62	72	56
2022-01-10	NC	NC	NC	NC	NC	NC	NC	NC	NC	67	77	134	73	84	105	109	131	148	130
2022-01-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	30	0	0	46	34	87	97	31
2022-01-17	NC	NC	NC	NC	NC	NC	NC	NC	NC	0	0	0	0	0	0	0	0	0	0
2022-01-20	NC	NC	NC	NC	NC	NC	NC	NC	NC	97	110	854	822	799	1,096	802	1,463	421	537
2022-01-24	NC	NC	NC	NC	NC	NC	NC	NC	NC	110	131	173	79	65	201	198	259	251	237
2022-01-27	NC	NC	NC	NC	NC	NC	NC	NC	NC	20	68	0	0	0	0	2	20	188	181
2022-01-31	NC	NC	NC	NC	NC	NC	NC	NC	NC	274	328	377	267	280	337	372	378	403	484
2022-02-03	NC	NC	NC	NC	NC	NC	NC	NC	NC	128	112	141	66	83	132	136	162	50	71
2022-02-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	28	46	99	68	46	52	54	58	262	196
2022-02-10	824	168	144	302	152	182	247	253	165	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-02-17	1,162	470	632	624	546	454	850	508	572	650	355	643	607	523	313	304	446	901	495
2022-02-22	1,758	1,262	1,299	1,259	1,189	1,149	1,219	1,097	1,098	1,315	1,267	1,430	1,351	1,302	1,419	1,495	1,639	1,440	1,264
2022-02-28	1,195	1,001	856	998	929	888	918	927	696	720	682	855	782	770	795	668	663	3,547	3,150
2022-03-08	1,331	783	828	753	752	743	1,123	990	1,097	1,022	1,024	1,178	902	940	908	770	1,165	1,318	1,171
2022-03-15	1,305	780	735	859	856	682	900	974	734	830	663	1,011	961	872	815	661	653	1,397	1,038
2022-03-22	457	163	190	201	169	131	181	134	128	122	129	325	182	229	137	151	159	348	284
2022-03-30	484	238	259	230	203	237	287	236	280	345	374	409	307	349	350	352	424	458	390
2022-04-06	729	318	315	323	339	360	545	415	340	426	390	544	427	412	412	386	429	513	512
2022-04-13	1,284	0	1	0	0	0	4	0	0	9	19	96	0	0	0	0	0	37	56
2022-04-20	451	94	119	131	98	108	142	105	106	140	159	277	208	201	180	158	185	401	352
2022-04-26	415	0	62	5	2	0	19	19	7	0	0	0	0	0	0	0	0	126	88
2022-05-03	582	127	141	140	119	162	150	135	130	273	257	284	277	232	222	203	255	492	491
2022-05-10	646	87	93	113	53	65	102	62	28	61	70	119	48	92	93	66	118	255	268
2022-05-18	426	17	32	41	30	30	52	52	67	48	60	111	68	93	48	41	86	238	276
2022-05-25	563	207	177	194	197	208	228	133	155	154	153	180	152	162	134	118	160	227	223
2022-06-01	523	123	148	142	141	145	180	162	187	228	291	240	213	213	220	228	242	364	331
2022-06-08	183	51	52	55	59	70	77	68	47	94	70	116	110	0	25	39	40	415	655
2022-06-15	254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	30
2022-06-22	651	0	0	1	0	4	5	13	2	30	17	99	36	26	52	52	83	174	139

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

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

Appendix A.3: Average Soil Vapor PID Concentration Readings at Tanks 2-18 and 20 (ppbv)

Date	SV02 S	SV02 M	SV02 D	SV03 S	SV03 M	SV03 D	SV04 S	SV04 M	SV04 D	SV05 S	SV05 M	SV05 D	SV06 S	SV06 M	SV07 S	SV07 M	SV07 D	SV08 S	SV08 M	SV08 D	SV09 S	SV09 M	SV09 D	SV10 S	SV10 M/D	SV11 S	SV11 M/D	SV12 S	SV12 M	SV12 D	SV13 S	SV13 M	SV13 D	SV14 S	SV14 M	SV14 D	SV15 S	SV15 M	SV15 D	SV16 S	SV16 M	SV16 D	SV17 S	SV17 M	SV17 D	SV18 S	SV18 D	SV20 S	SV20 M	SV20 D
2022-06-28	5	0	1	9	8	105	11	66	76	168	243	403	5,228	328	0	0	469	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	5	807	0	NC2	0	0	0	0	2,240	3,029	1,746	3,094	8,692	1,600	1,300	1,988
2022-07-05	0	0	142	0	0	0	0	0	0	0	364	237	4,761	82	24	10	499	0	5	16	2	20	36	9	10	22	33	90	31	33	60	67	101	154	157	1,095	78	NC2	71	165	108	101	1,264	2,441	1,821	3,017	4,381	1,153	1,940	1,553
2022-07-12	0	0	0	0	0	0	0	0	0	0	1	994	4,633	90	1	251	437	85	0	0	115	4	0	1	0	4	3	68	6	26	57	57	89	270	219	882	90	NC2	70	153	109	98	1,159	1,620	1,888	3,110	5,155	1,197	1,513	1,659
2022-07-19	0	0	0	0	0	0	0	0	0	21	79	250	4,358	410	95	46	533	30	28	36	22	32	57	60	28	80	77	148	67	76	89	95	152	353	216	1,003	77	NC2	86	207	135	130	1,427	2,649	1,768	4,599	6,338	1,252	1,491	1,429
2022-07-25	0	0	0	0	29	31	1	1	11	132	178	111	5,163	293	144	168	627	59	68	67	65	66	45	63	36	90	96	184	111	100	161	145	175	236	230	1,121	164	NC2	166	286	194	185	958	4,867	2,163	3,971	6,443	1,105	1,619	1,517
2022-08-02	0	0	0	0	0	4	0	4	60	1,015	104	236	5,045	194	147	97	508	65	26	201	46	52	96	46	45	95	112	157	76	70	106	106	151	190	184	951	128	NC2	116	188	131	130	1,080	2,314	2,311	4,927	6,972	1,369	1,688	1,598
2022-08-09	0	0	0	0	0	45	1	3	7	75	248	245	3,355	331	110	121	398	74	80	78	73	77	108	83	68	89	109	135	88	95	114	115	140	193	184	634	97	NC2	99	169	133	114	658	1,865	1,351	2,163	3,765	886	941	1,050
2022-08-16	0	0	0	0	0	0	0	0	0	92	120	279	5,360	291	93	73	454	30	51	36	26	23	42	8	0	21	43	92	16	9	63	62	103	134	125	759	59	NC2	82	163	124	80	860	2,415	1,714	7,193	7,832	1,250	1,406	1,189
2022-08-23	66	75	60	68	84	152	133	229	201	305	339	518	8,774	298	309	310	658	263	329	329	286	335	358	280	264	297	311	642	333	339	379	350	410	461	461	871	346	NC2	325	363	351	318	890	929	953	4,031	2,861	916	843	865
2022-08-30	0	0	0	0	0	29	0	0	0	4	32	210	3,830	223	75	61	353	54	82	83	50	46	73	66	73	161	176	138	105	129	111	103	161	165	153	496	105	NC2	126	213	178	171	682	800	864	2,449	3,166	513	459	502
2022-09-06	0	100	18	0	0	141	75	9	22	149	545	274	2,776	273	217	421	506	197	191	143	126	132	190	241	258	168	162	481	313	338	155	166	211	327	309	863	144	NC2	188	249	172	174	514	699	696	2,419	5,640	623	581	572
2022-09-13	250	252	284	382	405	507	495	495	523	634	2,181	923	5,721	1,118	721	810	967	534	557	507	431	435	461	537	408	433	405	504	529	423	395	414	503	614	527	1,038	379	NC2	360	568	468	399	2,406	2,805	3,160	8,202	8,432	4,741	4,332	3,592
2022-09-19	0	0	0	0	0	0	0	0	0	0	55	0	4,424	120	0	0	336	0	0	0	0	0	31	19	13	19	4	192	32	60	2	28	37	149	113	572	0	NC2	8	50	21	23	547	721	949	2,406	4,455	586	459	504
2022-09-26	0	0	0	0	0	0	0	0	0	0	0	0	4,453	427	0	0	186	0	0	0	0	0	0	0	0	0	0	151	0	33	0	0	0	253	26	537	0	NC2	0	41	32	0	427	609	755	2,015	3,196	561	425	490
2022-10-20	1	1	60	6	7	108	130	72	262	68	189	306	4,392	442	303	357	587	121	526	128	86	104	177	135	127	172	255	257	201	168	201	193	251	282	265	642	252	NC2	271	286	254	233	525	428	649	2,128	4,021	691	572	624

Notes:

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

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

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

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

* Air compressor used to clear obstruction prior to collecting sample.

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

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

NC = Not collected.

NC1 = Not collected due to tank maintenance.

NC2 = Not collected due to obstruction in vapor line.

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

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

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

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

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

Appendix A.3: Background Tunnel Air Soil Vapor PID Concentration Readings (ppbv)

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

Notes:
[1] "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.
[2] Soil vapor concentration measured using a ppmv PID.
[3] Epoxy coatings being applied in the area near Tank 17. Epoxy coating contain volatile organic compounds which can be detected by the monitoring equipment used to collect SVM samples.
[4] Dust collectors in use.
[5] Active work with solvents, MEK, being done at time of collection.
* Air compressor used to clear obstruction prior to collecting sample.
** Estimated value - Calibration check observed an approximately 40% low bias reading.
*** Estimated value - Inadvertent early termination of PID reading.
NC = Not collected.
NC1 = Not collected due to tank maintenance.
NC2 = Not collected due to obstruction in vapor line.
NC3 = Not collected - monitoring vault potentially compromised by release. Replacing tubing and cleaning valves. Sampling to begin May 14.
NC4 = Not collected due to a broken valve/fitting. A replacement valve is being pursued.
NC5 = Not collected - not required by the DOH Transition Plan.
Soil vapor concentration readings are reported in parts per billion by volume (ppbv).

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Appendix A.3 – NOI Soil Vapor Chromatograms

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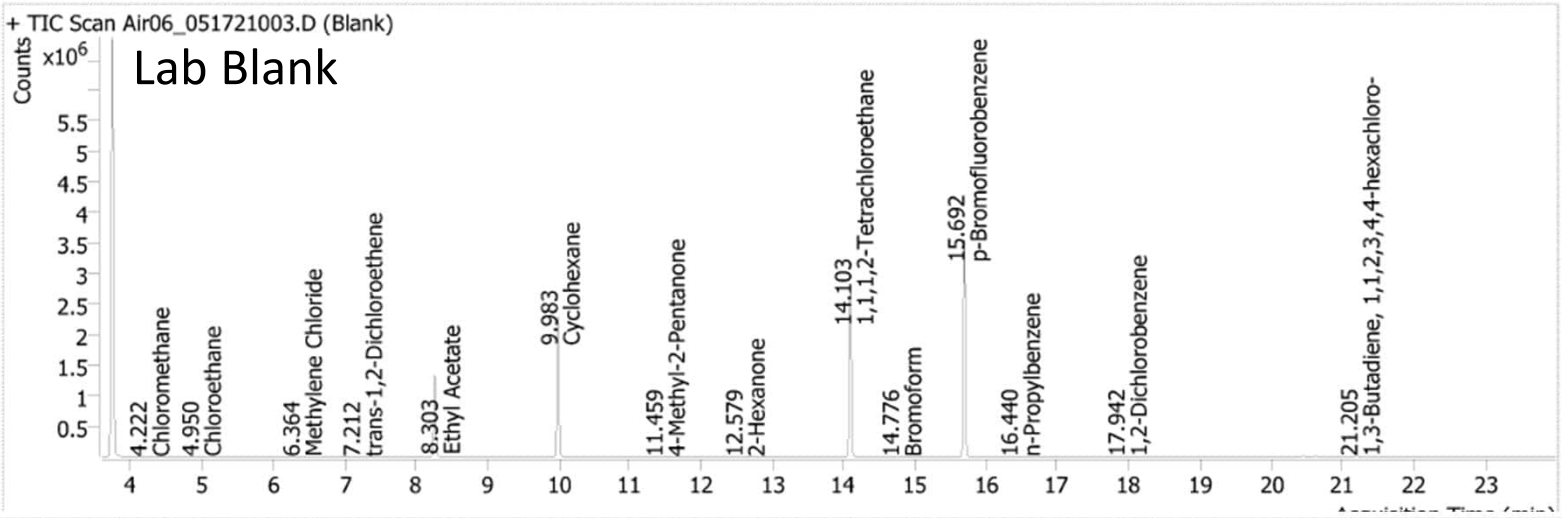
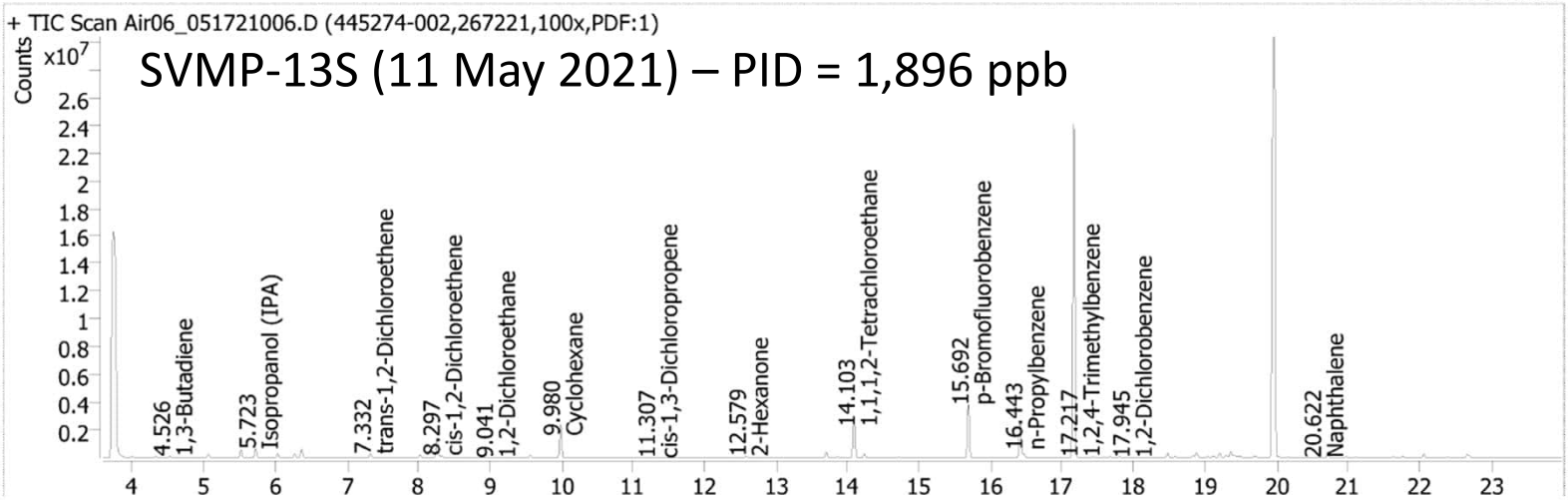
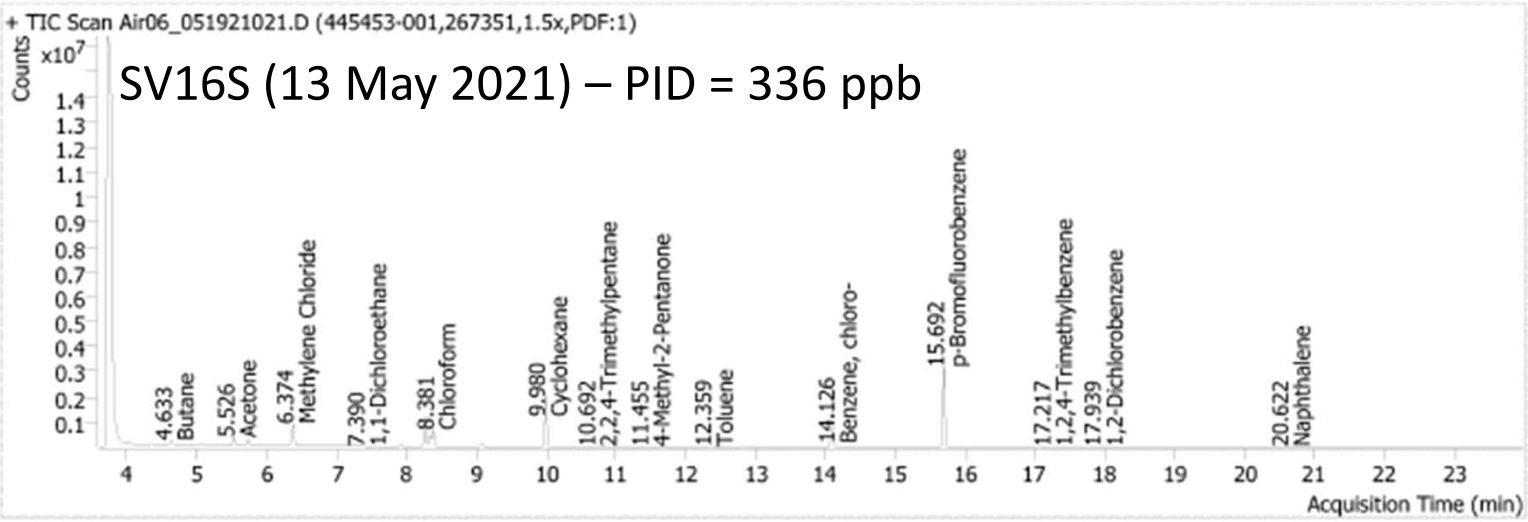
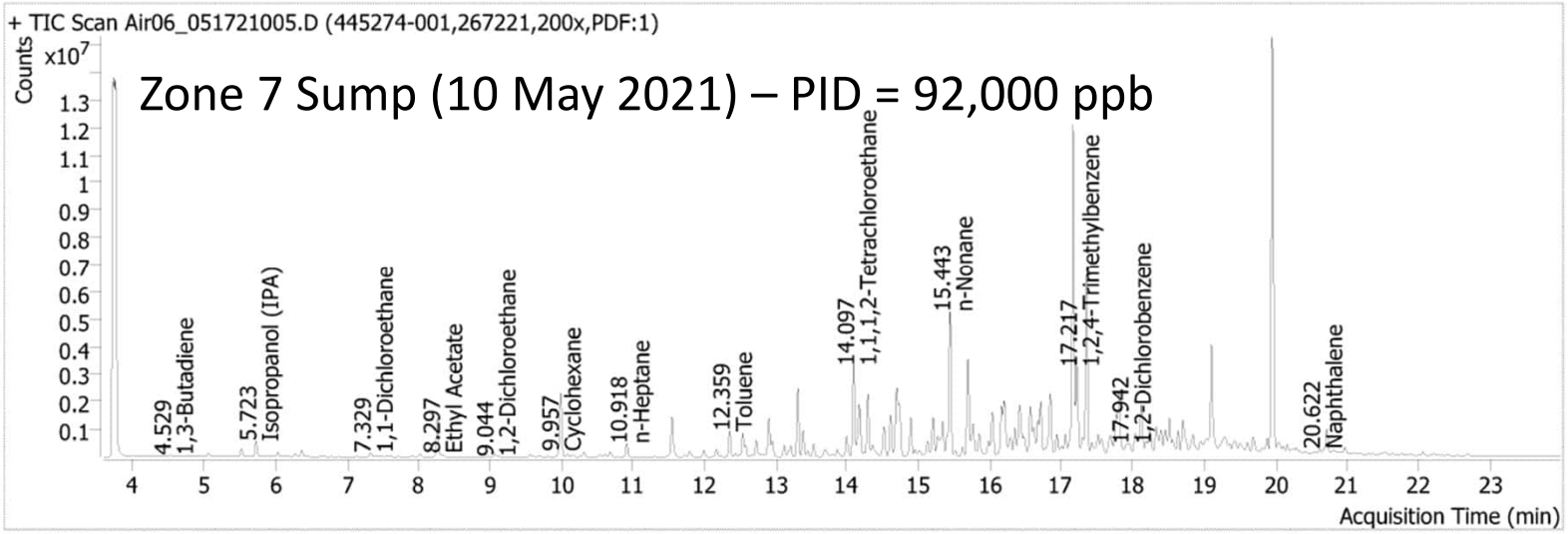
May 2021
Soil Vapor Samples

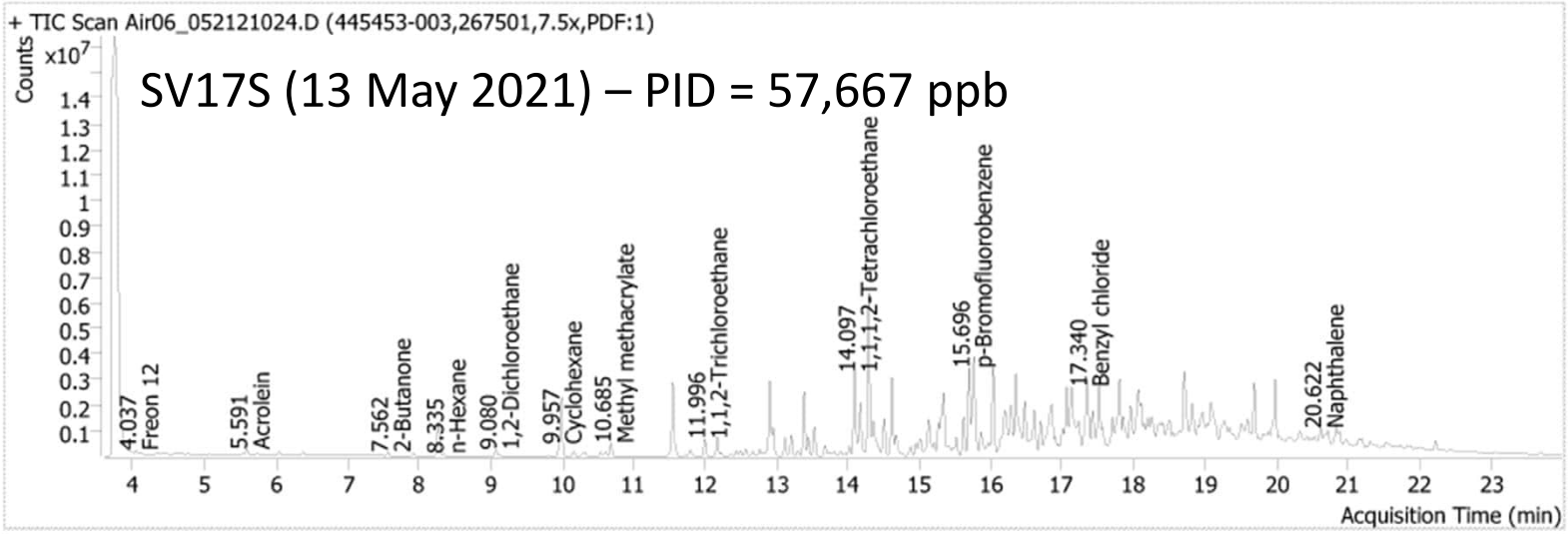
Mass Spec
Chromatograms

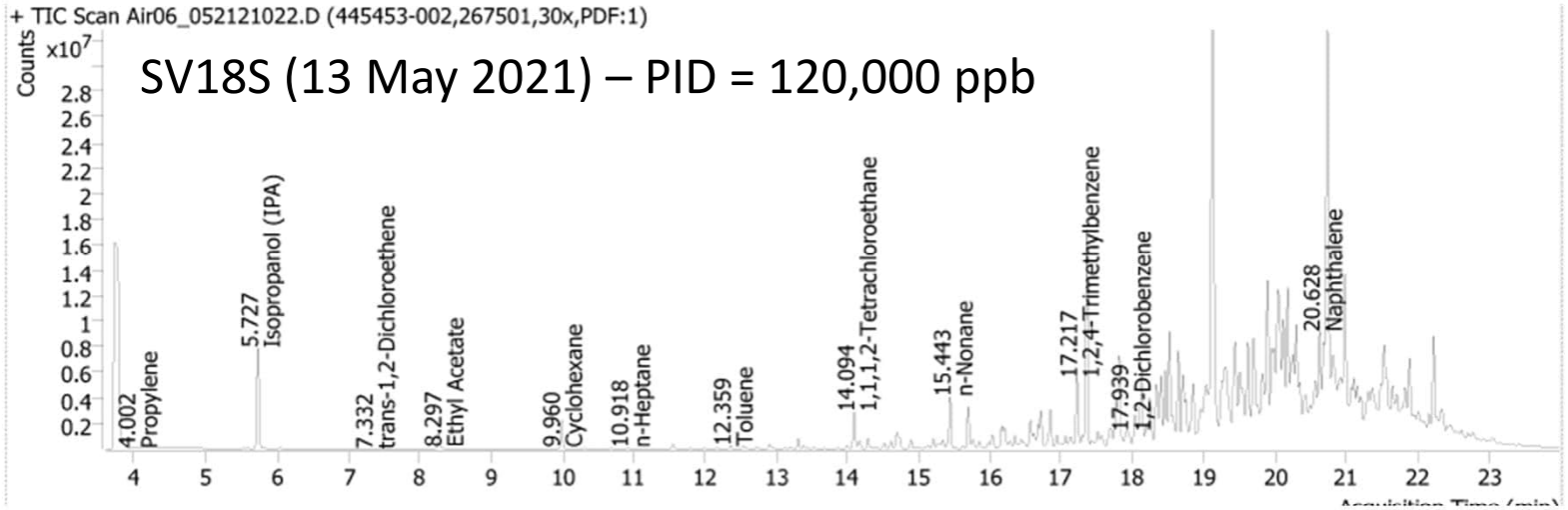

+ TIC Scan Air06_051721003.D (Blank)
Lab Blank
Counts
x10^6
4.222 Chloromethane
4.950 Chloroethane
6.364 Methylene Chloride
7.212 trans-1,2-Dichloroethene
8.303 Ethyl Acetate
9.983 Cyclohexane
11.459 4-Methyl-2-Pentanone
12.579 2-Hexanone
14.103 1,1,1,2-Tetrachloroethane
14.776 Bromoform
15.692 p-Bromofluorobenzene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

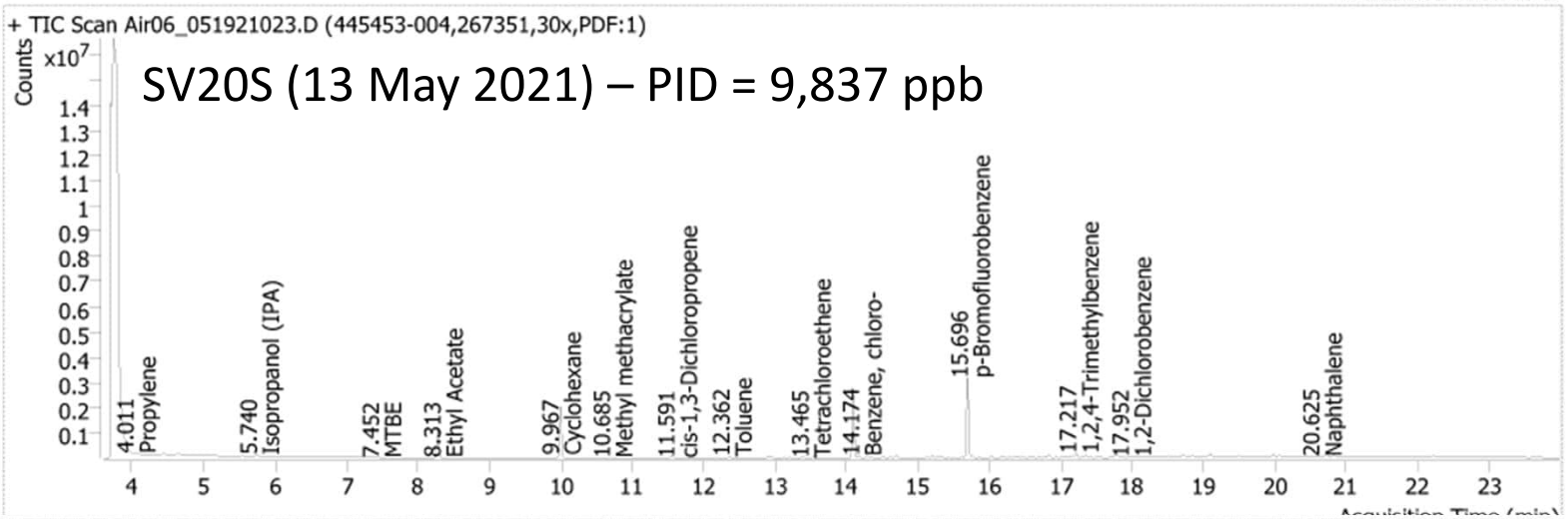

+ TIC Scan Air06_051721006.D (445274-002,267221,100x,PDF:1)
SVMP-13S (11 May 2021) – PID = 1,896 ppb
Counts
x10^7
4.526 1,3-Butadiene
5.723 Isopropanol (IPA)
7.332 trans-1,2-Dichloroethene
8.297 cis-1,2-Dichloroethene
9.041 1,2-Dichloroethane
9.980 Cyclohexane
11.307 cis-1,3-Dichloropropene
12.579 2-Hexanone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

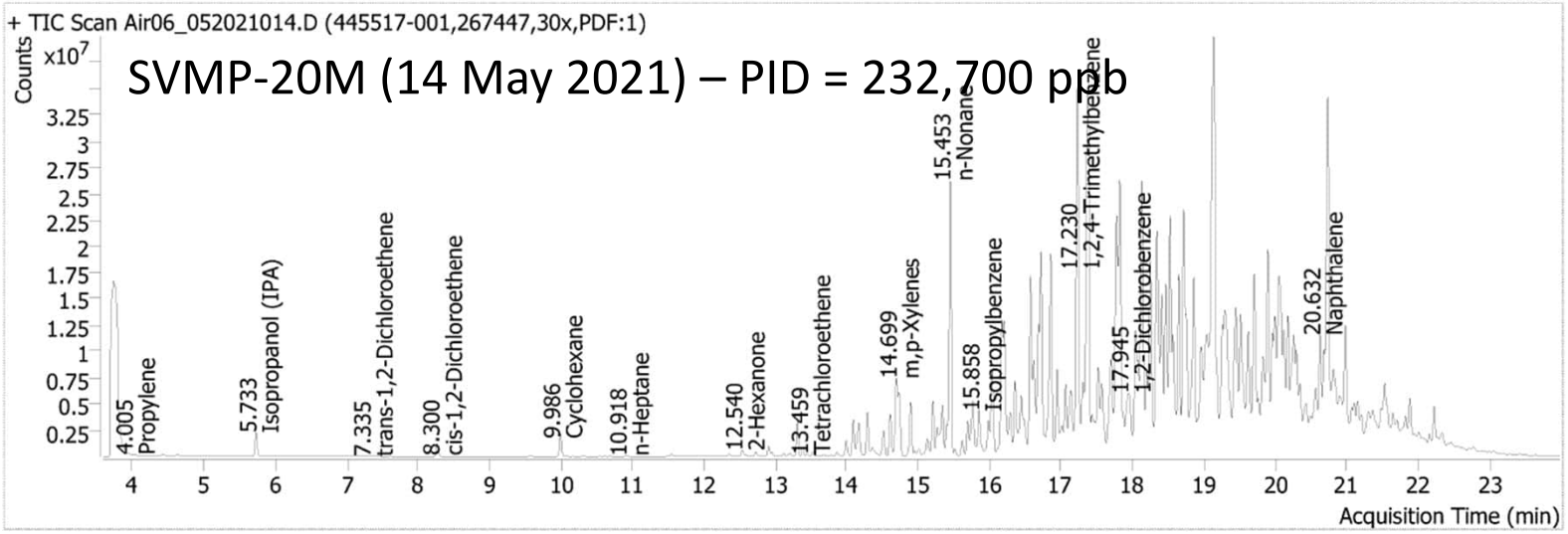

+ TIC Scan Air06_051921021.D (445453-001,267351,1.5x,PDF:1)
SV16S (13 May 2021) – PID = 336 ppb
Counts
x10^7
4.633 Butane
5.526 Acetone
6.374 Methylene Chloride
7.390 1,1-Dichloroethane
8.381 Chloroform
9.980 Cyclohexane
10.692 2,2,4-Trimethylpentane
11.455 4-Methyl-2-Pentanone
12.359 Toluene
14.126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


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


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

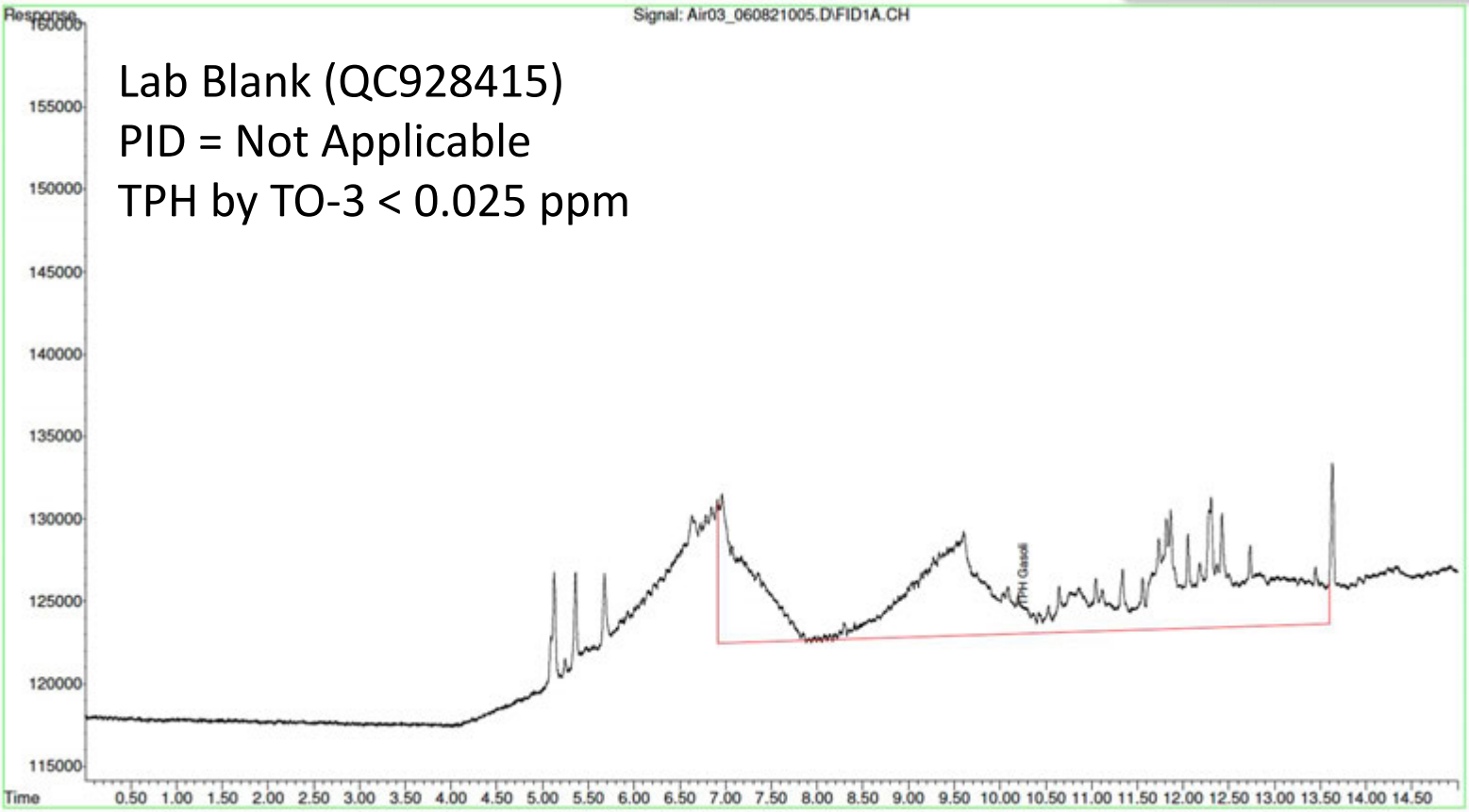

+ TIC Scan Air06_052121022.D (445453-002,267501,30x,PDF:1)
SV18S (13 May 2021) – PID = 120,000 ppb
Counts
x10^7
4.002 Propylene
5.727 Isopropanol (IPA)
7.332 trans-1,2-Dichloroethene
8.297 Ethyl Acetate
9.960 Cyclohexane
10.918 n-Heptane
12.359 Toluene
14.094 1,1,1,2-Tetrachloroethane
15.443 n-Nonane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

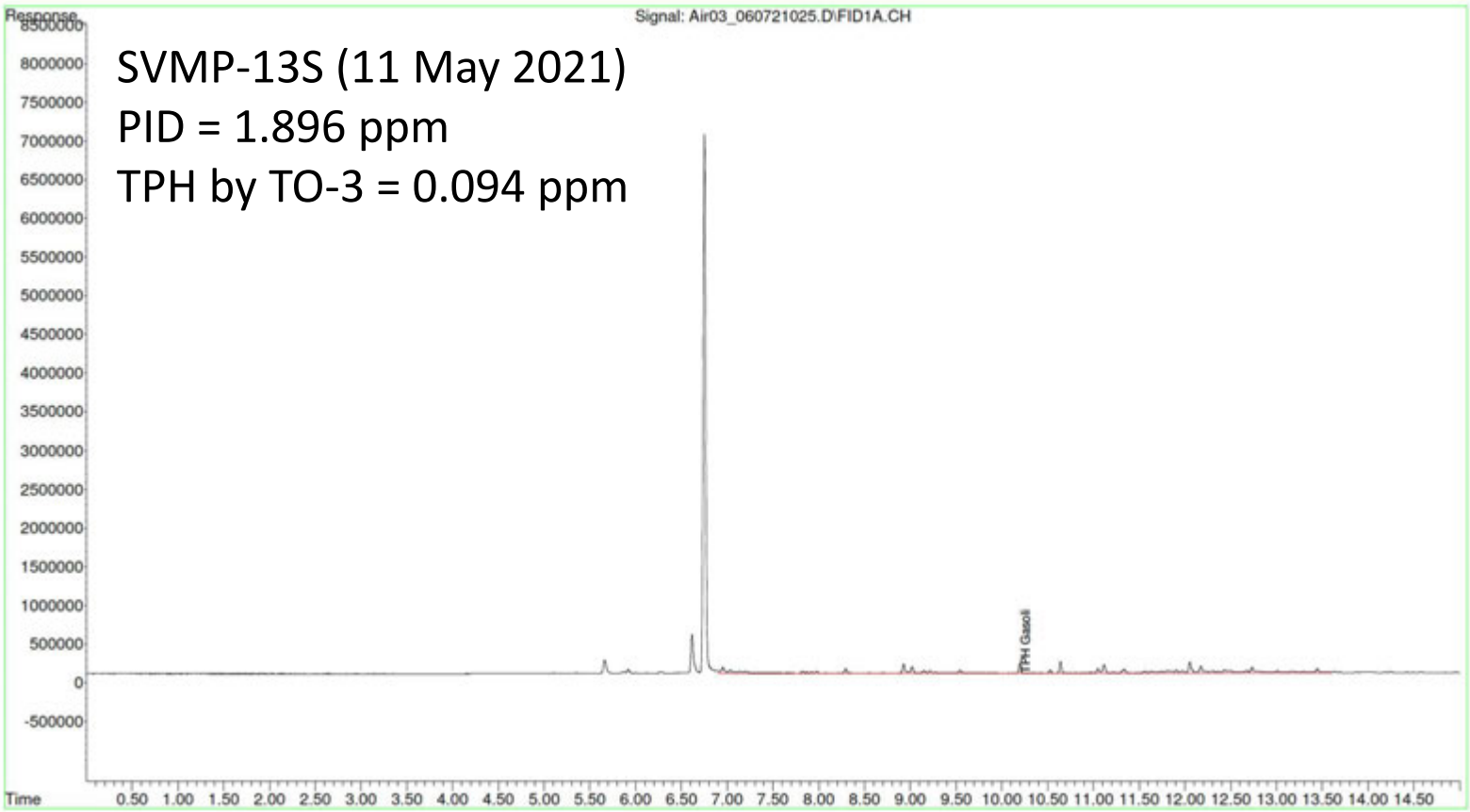

+ TIC Scan Air06_051921023.D (445453-004,267351,30x,PDF:1)
SV20S (13 May 2021) – PID = 9,837 ppb
Counts
x10^7
4.011 Propylene
5.740 Isopropanol (IPA)
7.452 MTBE
8.313 Ethyl Acetate
9.967 Cyclohexane
10.685 Methyl methacrylate
11.591 cis-1,3-Dichloropropene
12.362 Toluene
13.465 Tetrachloroethene
14.174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

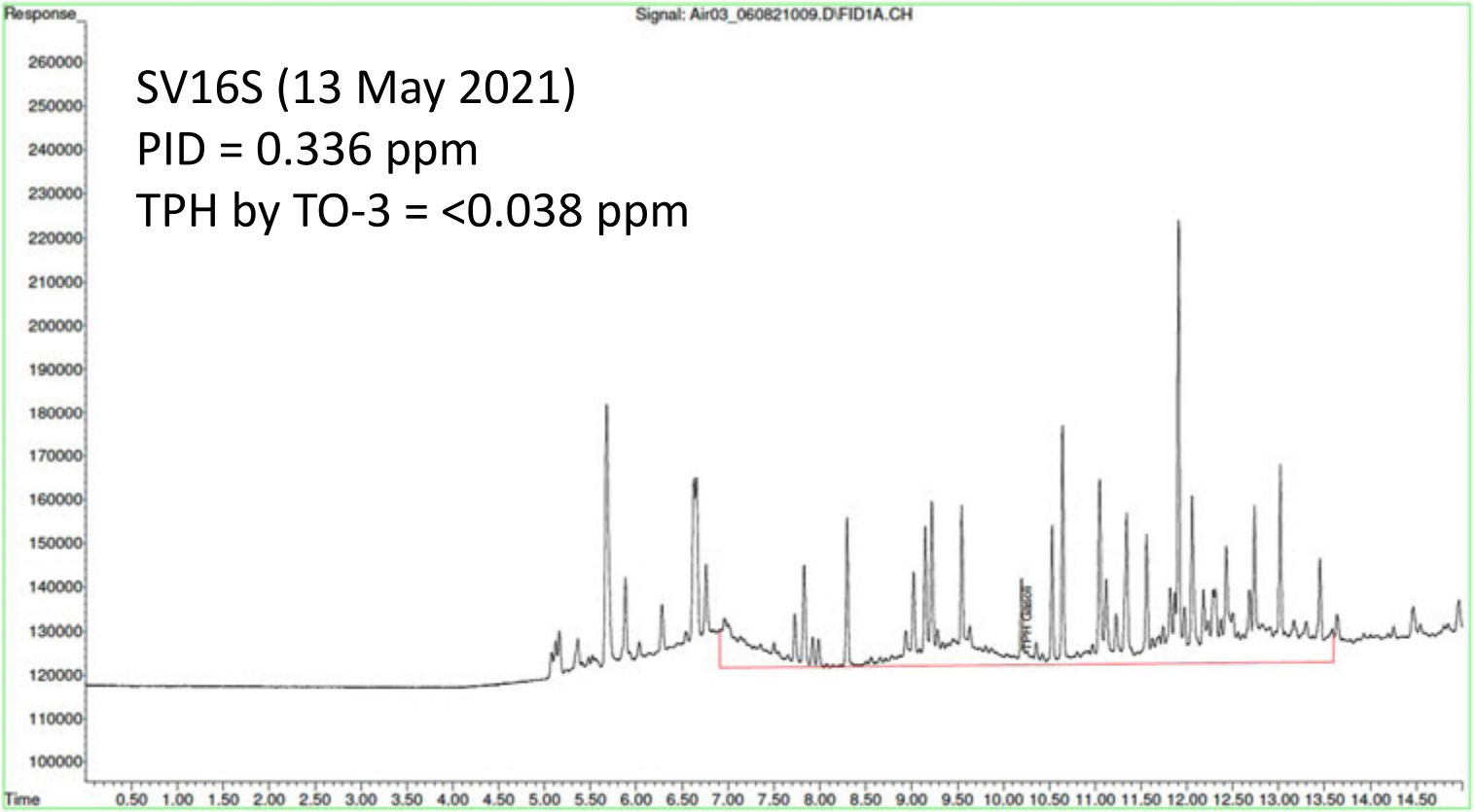

+ TIC Scan Air06_052021014.D (445517-001,267447,30x,PDF:1)
SVMP-20M (14 May 2021) – PID = 232,700 ppb
Counts
x10^7
4.005 Propylene
5.733 Isopropanol (IPA)
7.335 trans-1,2-Dichloroethene
8.300 cis-1,2-Dichloroethene
9.986 Cyclohexane
10.918 n-Heptane
12.540 2-Hexanone
13.459 Tetrachloroethene
14.699 m,p-Xylenes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

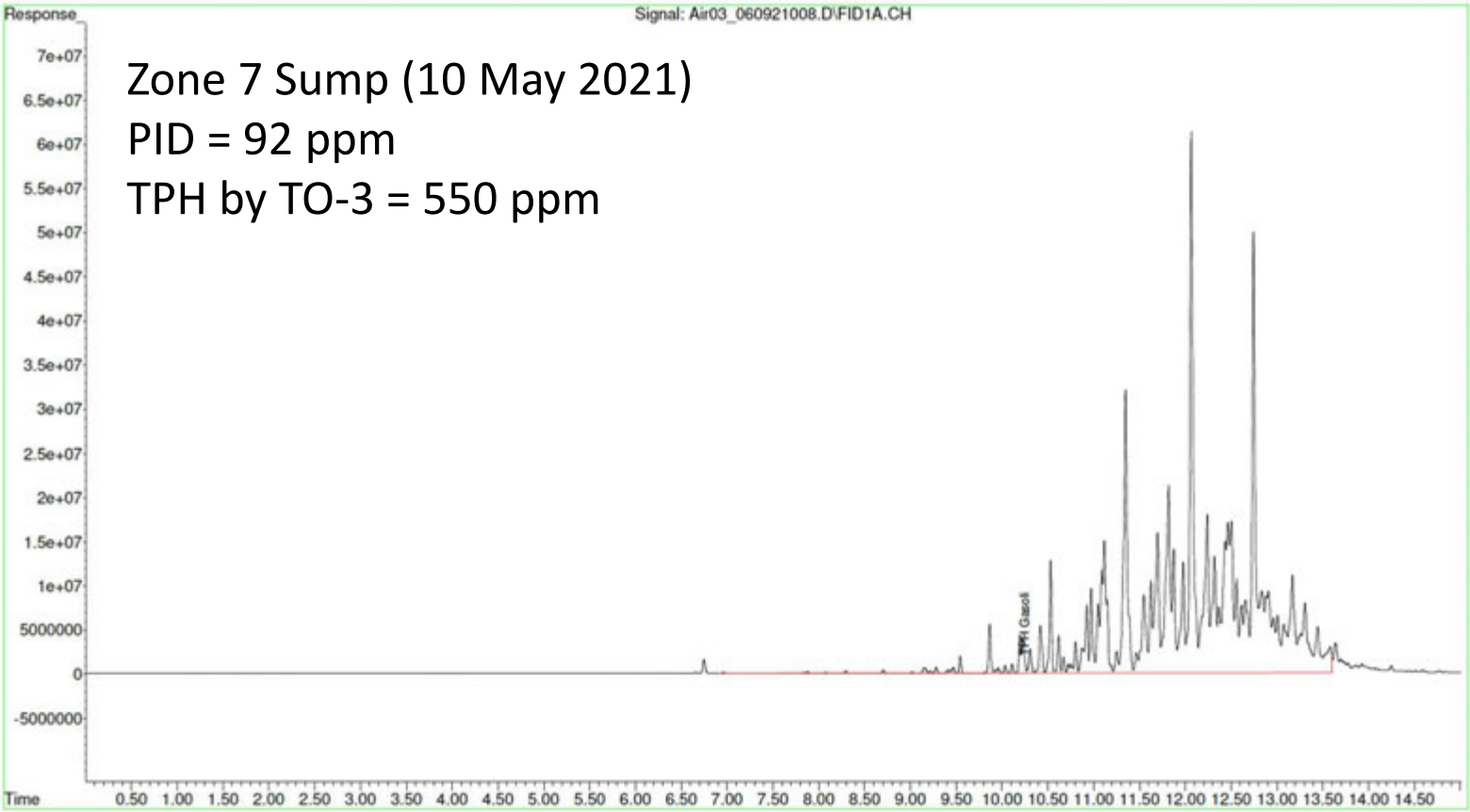
May 2021
Soil Vapor Samples

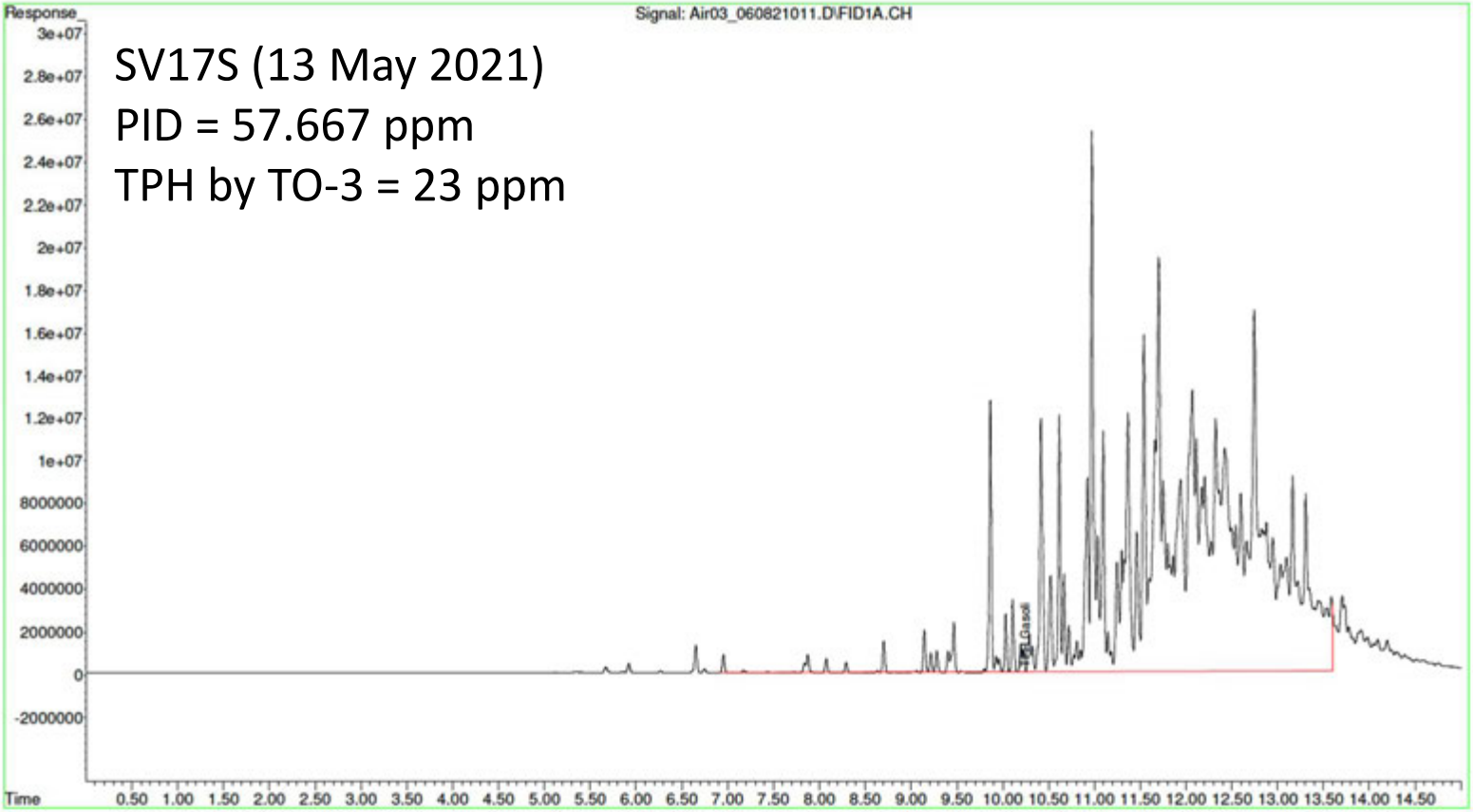
FID Chromatograms

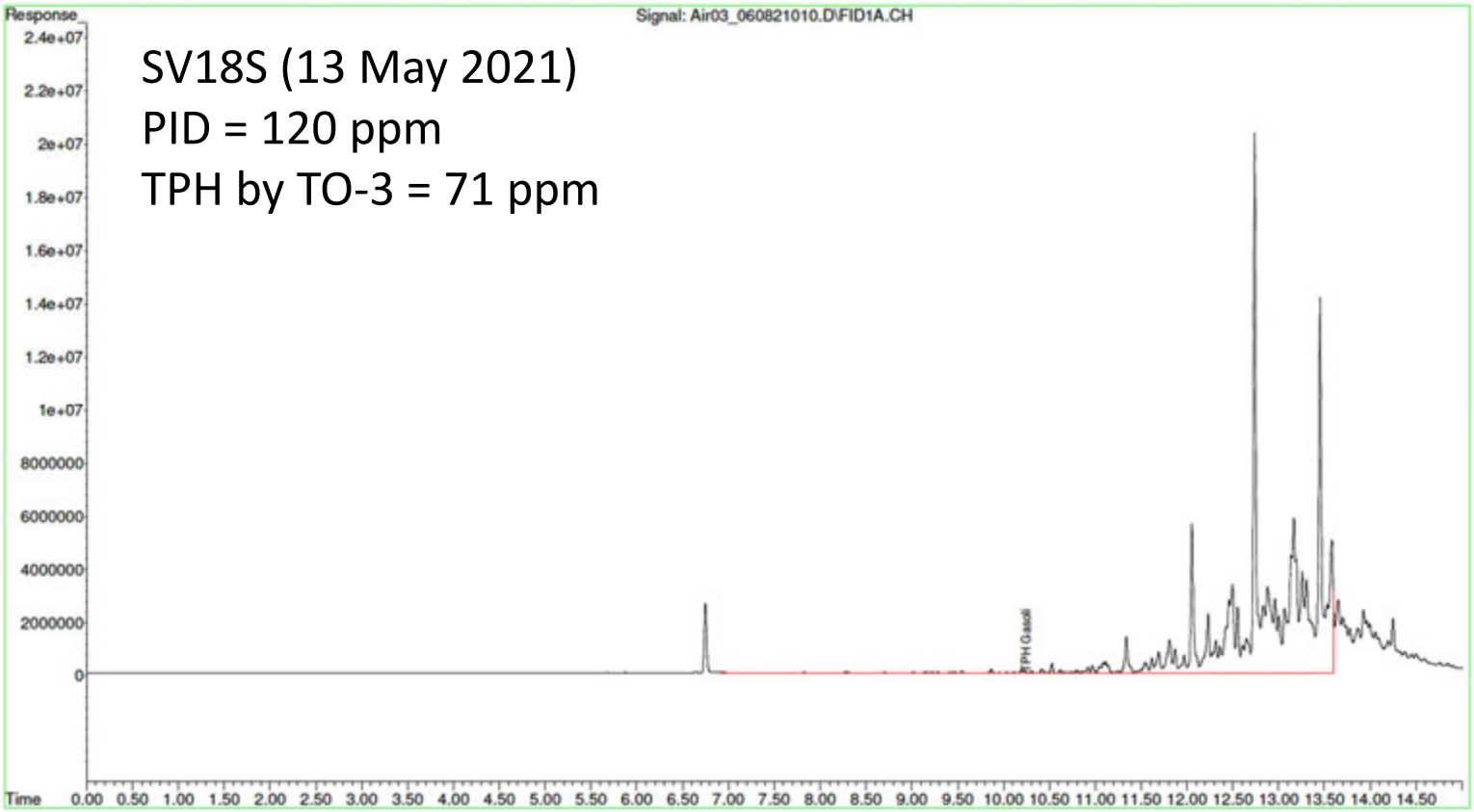

Signal: Air03_060821005.D\FID1A.CH
Response
Lab Blank (QC928415)
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
TPH Gasoil
Time

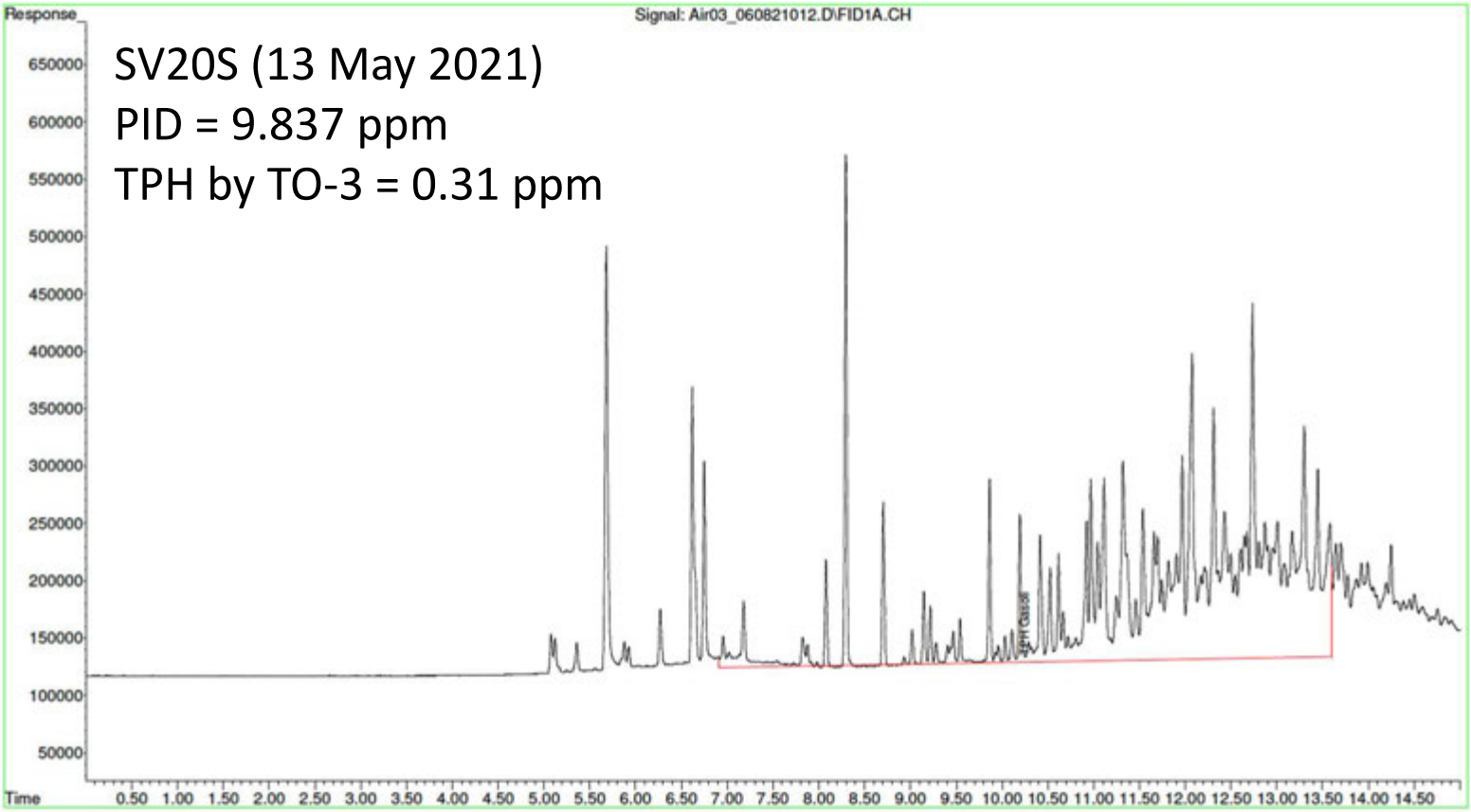

Signal: Air03_060721025.D\FID1A.CH
Response
SVMP-13S (11 May 2021)
PID = 1.896 ppm
TPH by TO-3 = 0.094 ppm
TPH Gasoil
Time

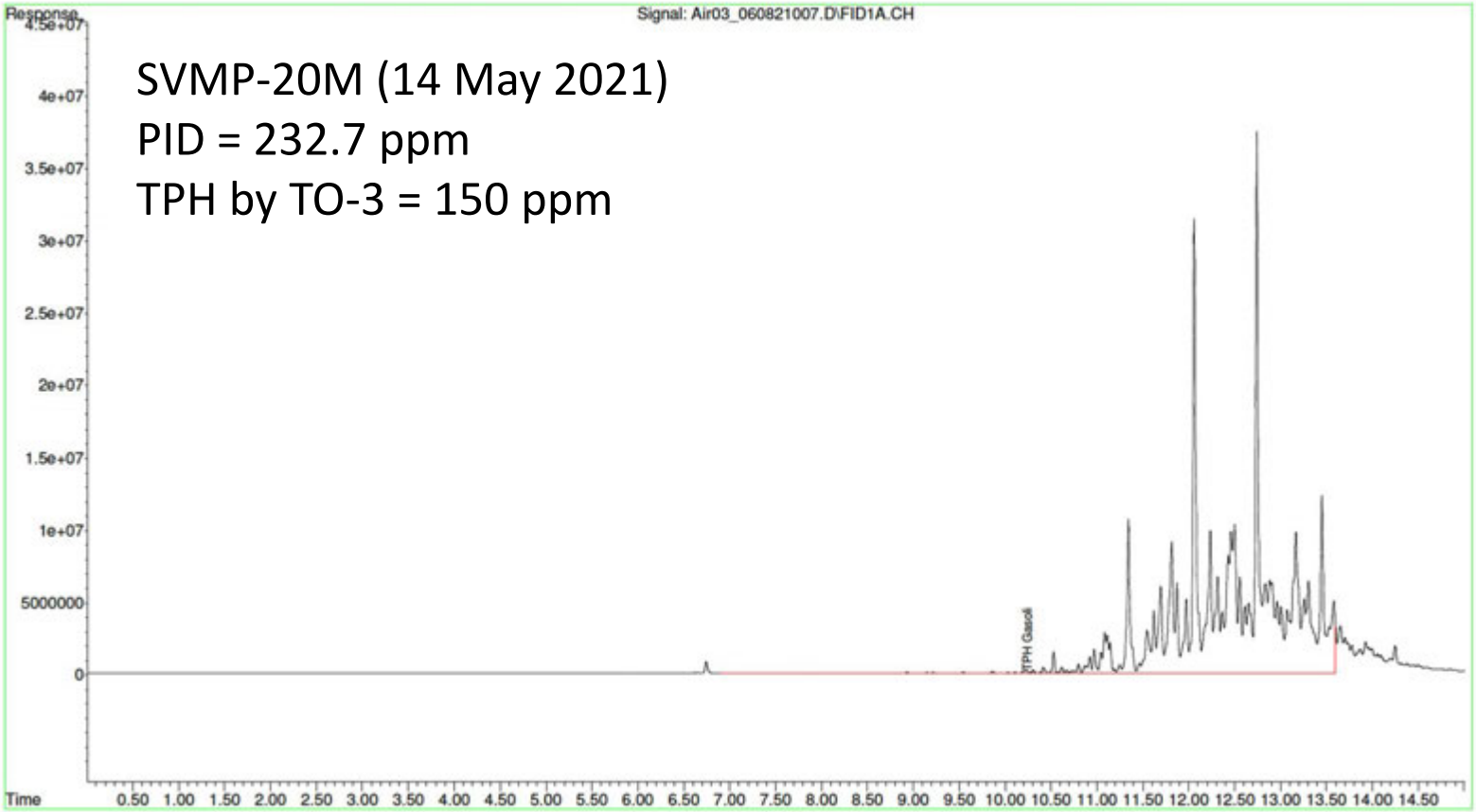

Signal: Air03_060821009.D\FID1A.CH
Response
SV16S (13 May 2021)
PID = 0.336 ppm
TPH by TO-3 = <0.038 ppm
TPH Gasoil
Time


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


Signal: Air03_060821011.D\FID1A.CH
Response
SV17S (13 May 2021)
PID = 57.667 ppm
TPH by TO-3 = 23 ppm
TPH Gasoli
Time

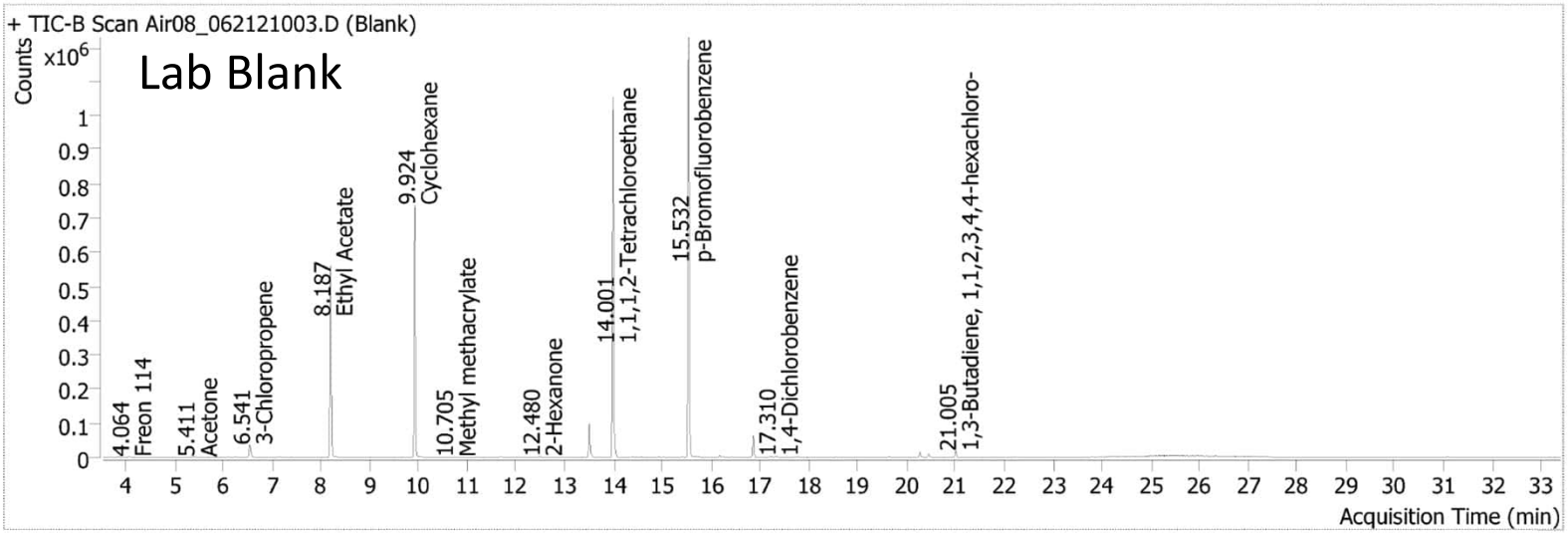

Signal: Air03_060821010.D\FID1A.CH
Response
SV18S (13 May 2021)
PID = 120 ppm
TPH by TO-3 = 71 ppm
TPH Gasoli
Time

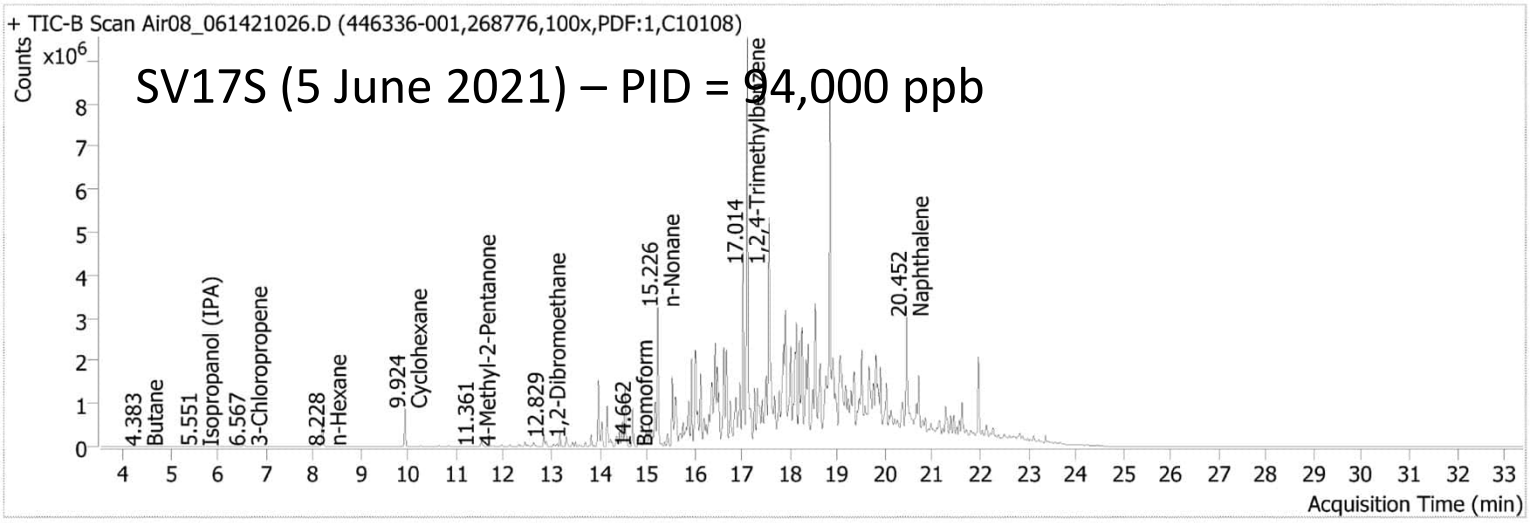

Signal: Air03_060821012.D\FID1A.CH
Response
SV20S (13 May 2021)
PID = 9.837 ppm
TPH by TO-3 = 0.31 ppm
TPH Gasoil
Time

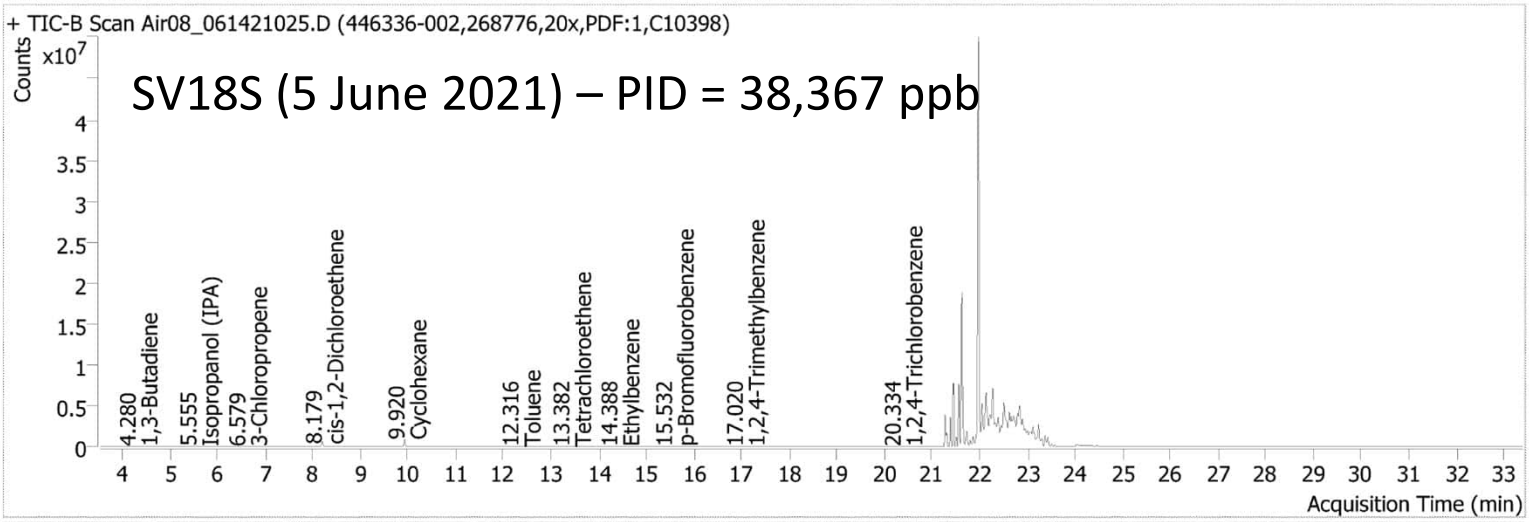

Signal: Air03_060821007.D\FID1A.CH
Response
SVMP-20M (14 May 2021)
PID = 232.7 ppm
TPH by TO-3 = 150 ppm
TPH Gasoil
Time

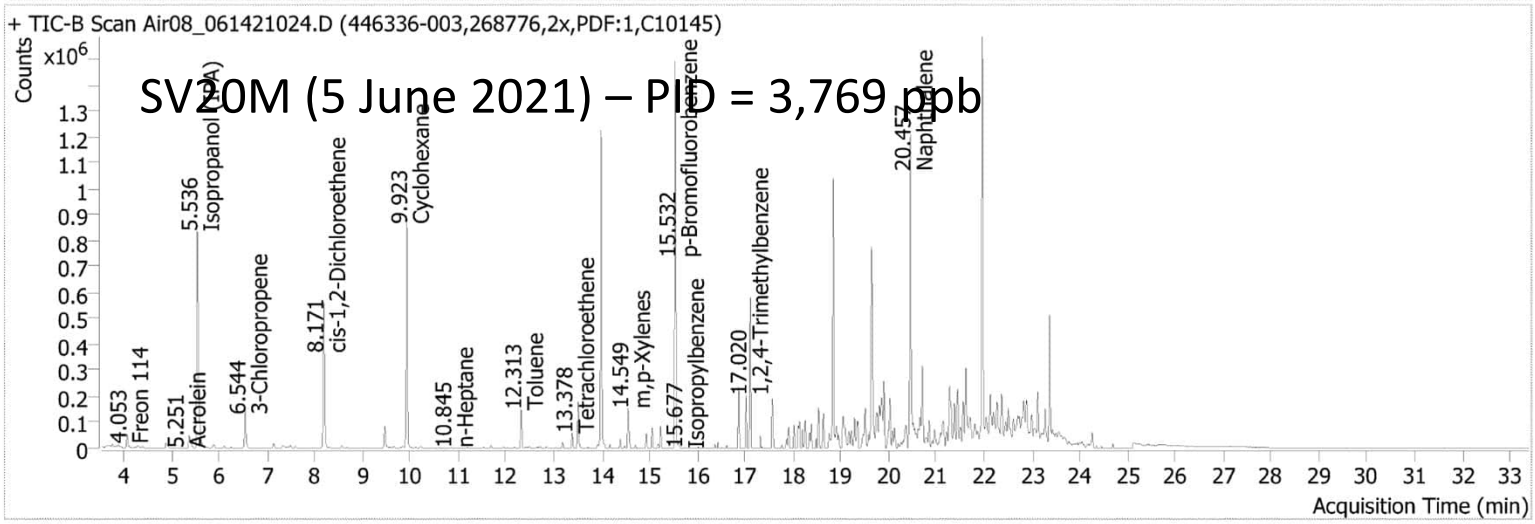
June 2021
Soil Vapor Samples

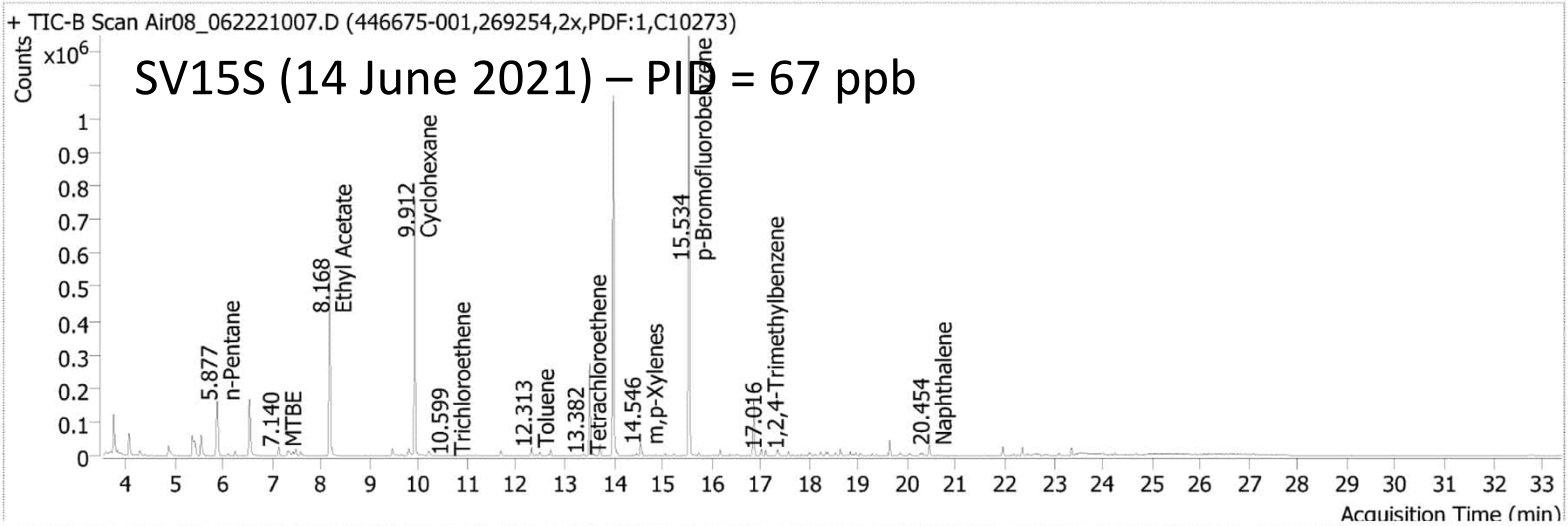
Mass Spec Chromatograms

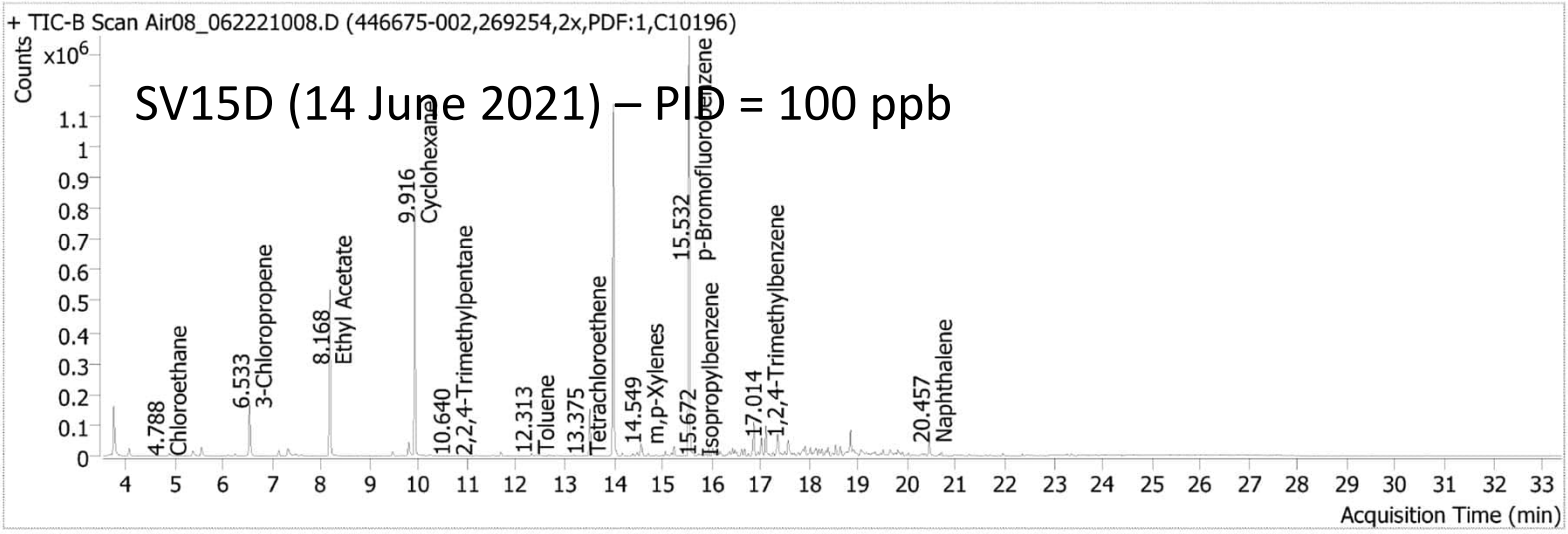

+ TIC-B Scan Air08_062121003.D (Blank)
Lab Blank
Counts
x10^6
4.064 Freon 114
5.411 Acetone
6.541 3-Chloropropene
8.187 Ethyl Acetate
9.924 Cyclohexane
10.705 Methyl methacrylate
12.480 2-Hexanone
14.001 1,1,1,2-Tetrachloroethane
15.532 p-Bromofluorobenzene
17.310 1,4-Dichlorobenzene
21.005 1,3-Butadiene,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

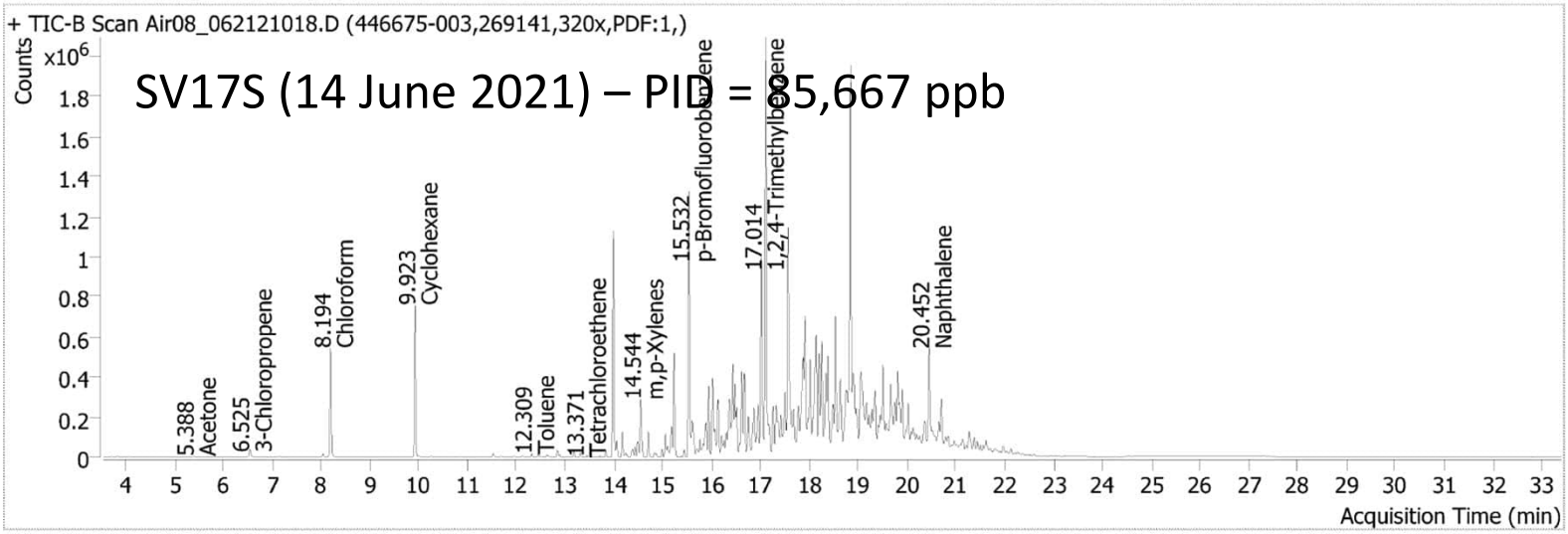

+ TIC-B Scan Air08_061421026.D (446336-001,268776,100x,PDF:1,C10108)
SV17S (5 June 2021) – PID = 94,000 ppb
Counts
x10^6
4.383 Butane
5.551 Isopropanol (IPA)
6.567 3-Chloropropene
8.228 n-Hexane
9.924 Cyclohexane
11.361 4-Methyl-2-Pentanone
12.829 1,2-Dibromoethane
14.662 Bromoform
15.226 n-Nonane
17.014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

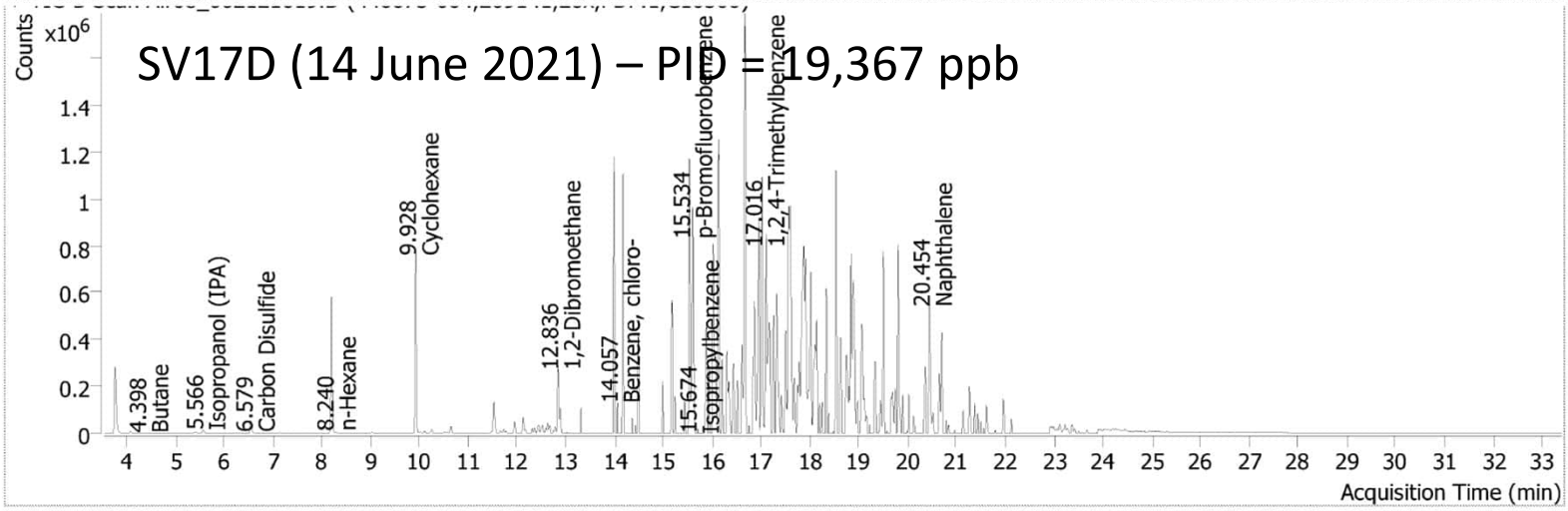

+ TIC-B Scan Air08_061421025.D (446336-002,268776,20x,PDF:1,C10398)
SV18S (5 June 2021) – PID = 38,367 ppb
Counts
x10^7
4.280 1,3-Butadiene
5.555 Isopropanol (IPA)
6.579 3-Chloropropene
8.179 cis-1,2-Dichloroethene
9.920 Cyclohexane
12.316 Toluene
13.382 Tetrachloroethene
14.388 Ethylbenzene
15.532 p-Bromofluorobenzene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

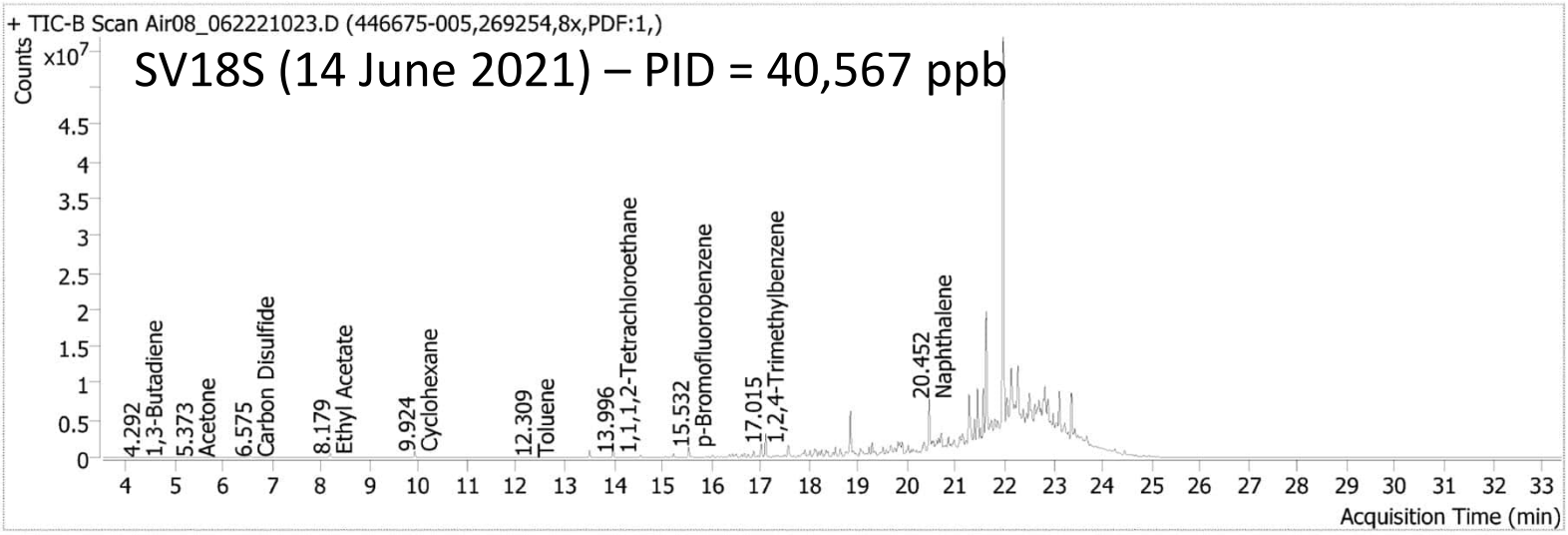

+ TIC-B Scan Air08_061421024.D (446336-003,268776,2x,PDF:1,C10145)
SV20M (5 June 2021) – PID = 3,769 ppb
Counts
x10^6
4.053 Freon 114
5.251 Acrolein
5.536 Isopropanol (IPA)
6.544 3-Chloropropene
8.171 cis-1,2-Dichloroethene
9.923 Cyclohexane
10.845 n-Heptane
12.313 Toluene
13.378 Tetrachloroethene
14.549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

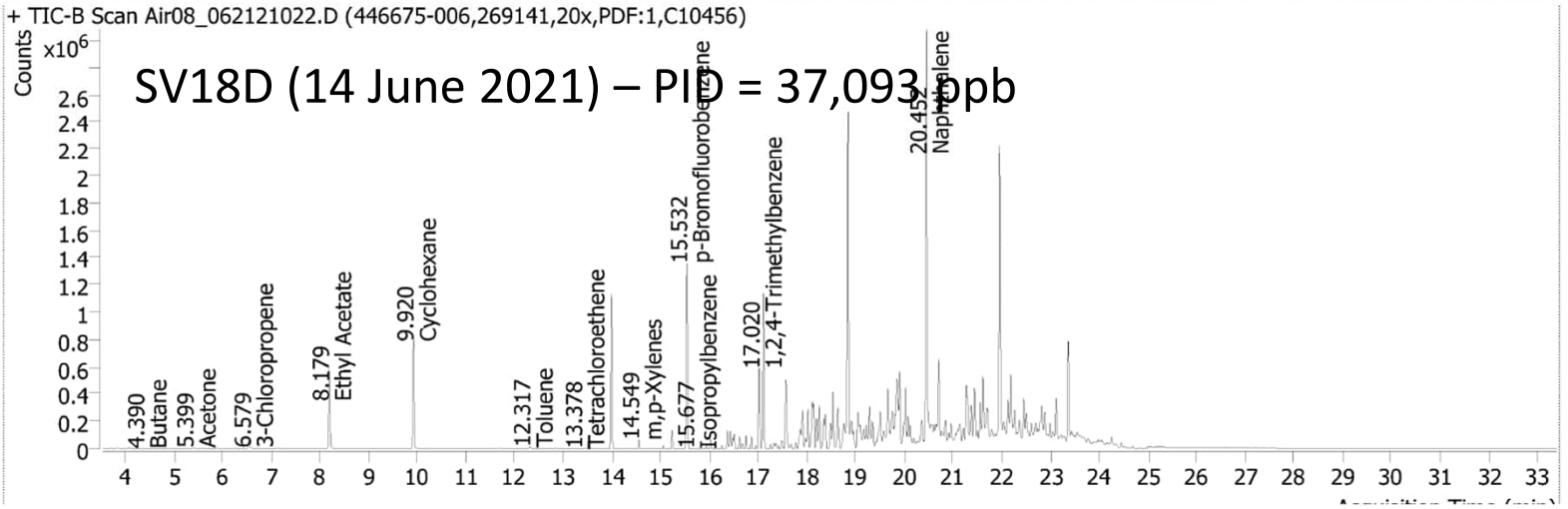

+ TIC-B Scan Air08_062221007.D (446675-001,269254,2x,PDF:1,C10273)
SV15S (14 June 2021) – PID = 67 ppb
Counts
x10^6
5.877 n-Pentane
7.140 MTBE
8.168 Ethyl Acetate
9.912 Cyclohexane
10.599 Trichloroethene
12.313 Toluene
13.382 Tetrachloroethene
14.546 m,p-Xylenes
15.534 p-Bromofluorobenzene
17.016 1,2,4-Trimethylbenzene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

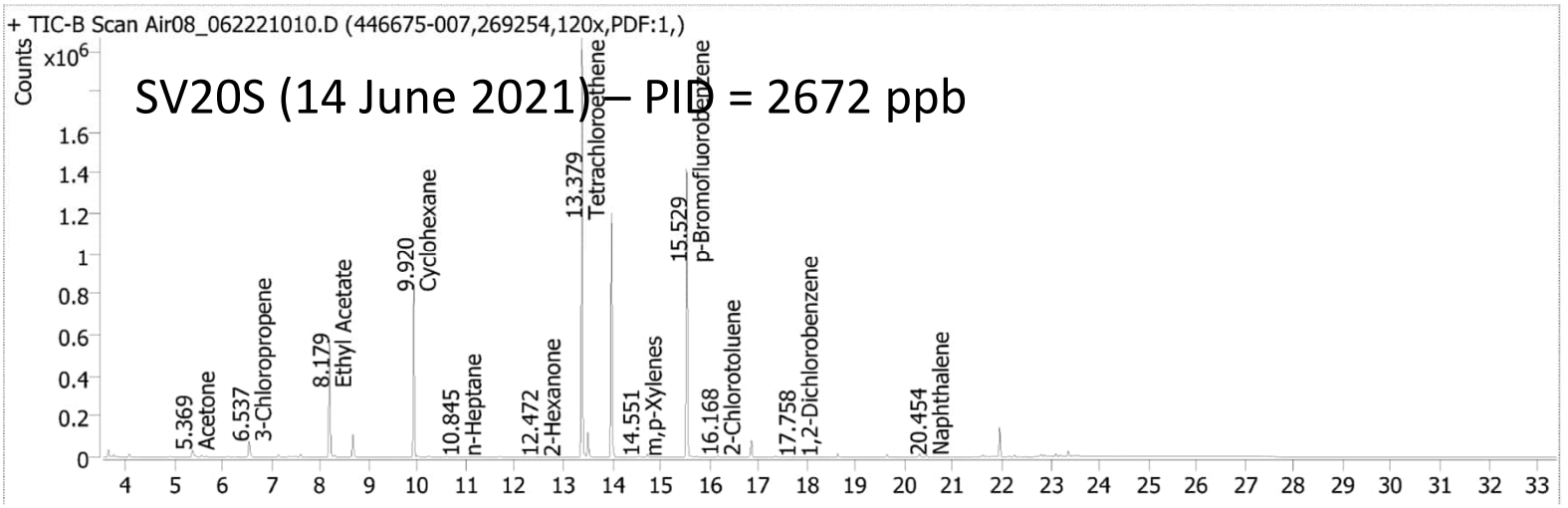

+ TIC-B Scan Air08_062221008.D (446675-002,269254,2x,PDF:1,C10196)
SV15D (14 June 2021) – PID = 100 ppb
Counts
x10^6
4.788 Chloroethane
6.533 3-Chloropropene
8.168 Ethyl Acetate
9.916 Cyclohexane
10.640 2,2,4-Trimethylpentane
12.313 Toluene
13.375 Tetrachloroethene
14.549 m,p-Xylenes
15.532 p-Bromofluorobenzene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

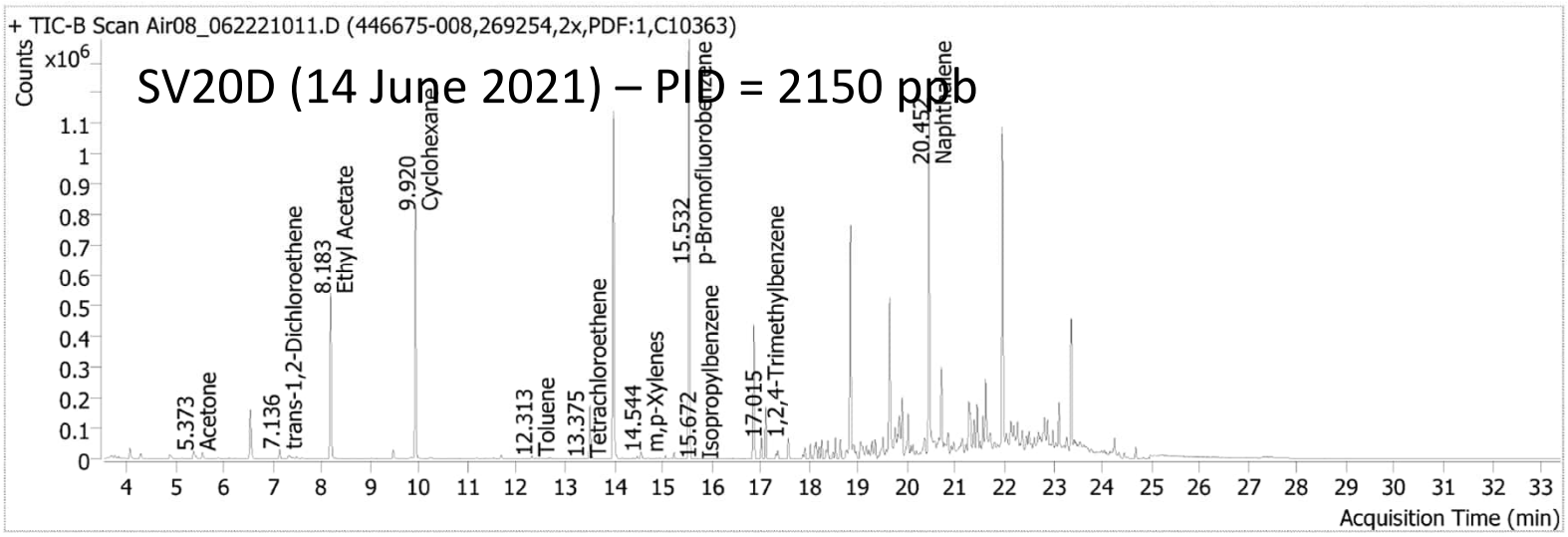

+ TIC-B Scan Air08_062121018.D (446675-003,269141,320x,PDF:1,)
SV17S (14 June 2021) – PID = 35,667 ppb
Counts
x10^6
5.388 Acetone
6.525 3-Chloropropene
8.194 Chloroform
9.923 Cyclohexane
12.309 Toluene
13.371 Tetrachloroethene
14.544 m,p-Xylenes
15.532 p-Bromofluorobenzene
17.014 1,2,4-Trimethylbenzene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


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


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

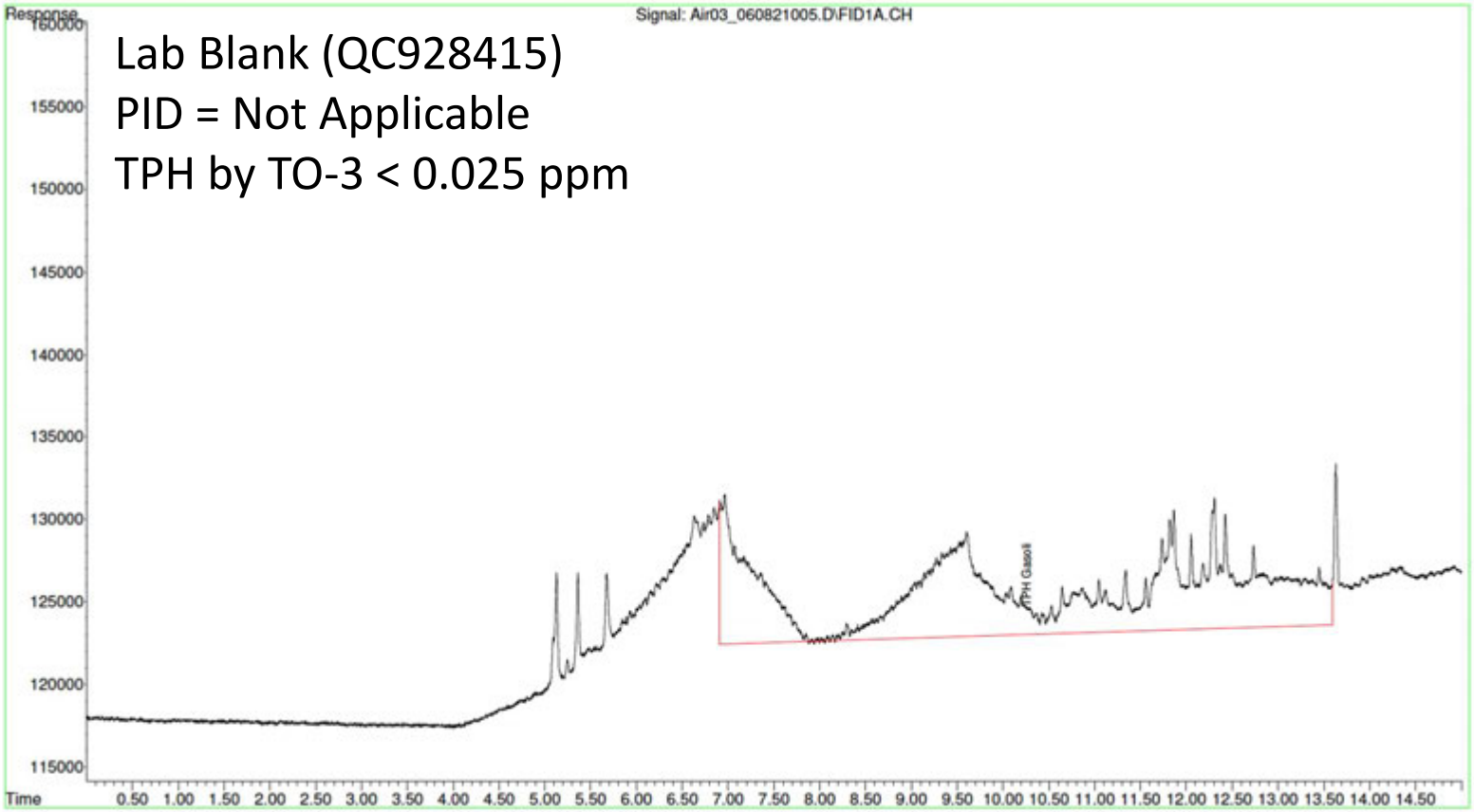

+ TIC-B Scan Air08_062121022.D (446675-006,269141,20x,PDF:1,C10456)
SV18D (14 June 2021) – PID = 37,093 ppb
Counts
x10^6
4.390 Butane
5.399 Acetone
6.579 3-Chloropropene
8.179 Ethyl Acetate
9.920 Cyclohexane
12.317 Toluene
13.378 Tetrachloroethene
14.549 m,p-Xylenes
15.677 Isopropylbenzene
15.532 p-Bromofluorobenzene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

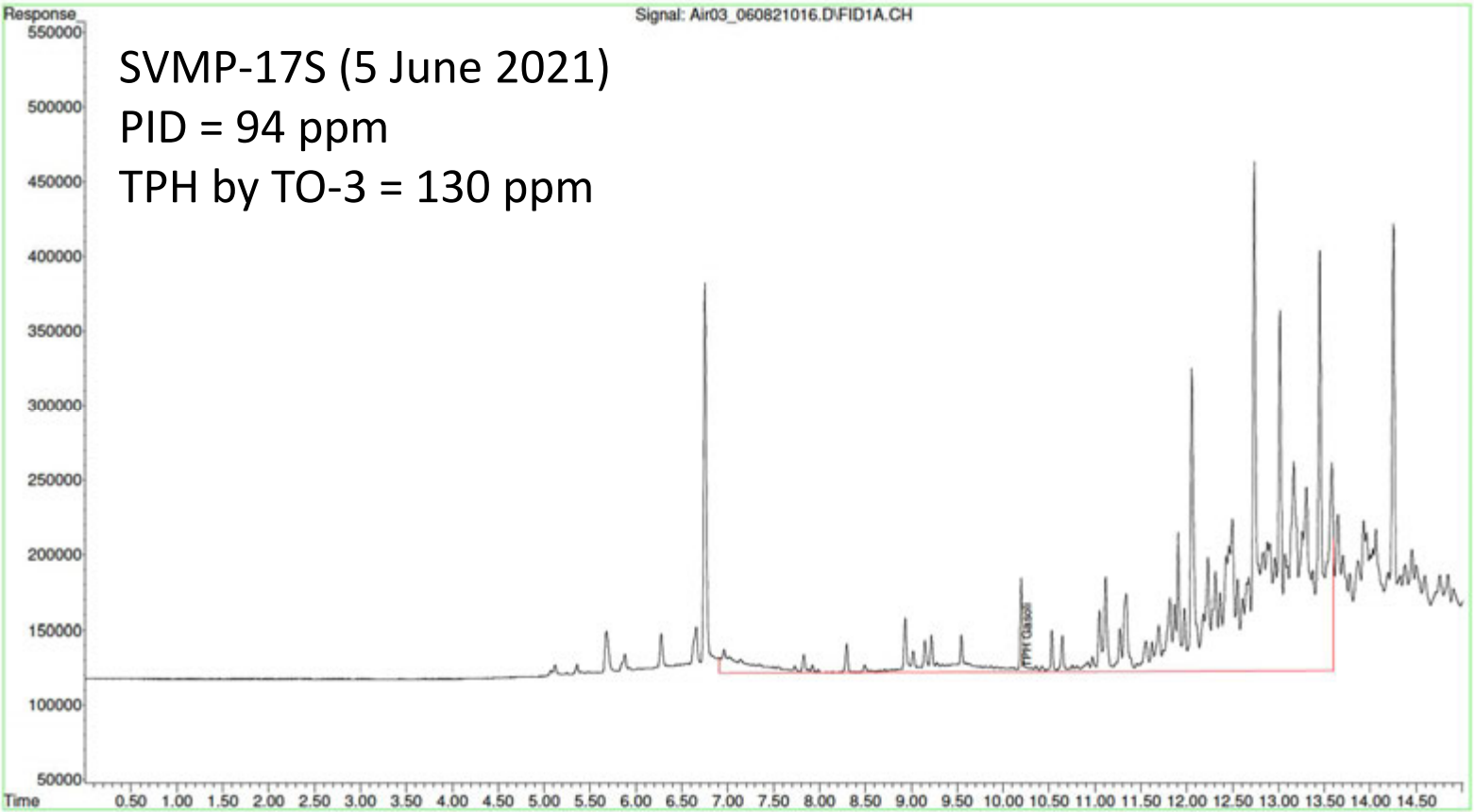

+ TIC-B Scan Air08_062221010.D (446675-007,269254,120x,PDF:1,)
SV20S (14 June 2021) – PID = 2672 ppb
Counts
x10^6
5.369 Acetone
6.537 3-Chloropropene
8.179 Ethyl Acetate
9.920 Cyclohexane
10.845 n-Heptane
12.472 2-Hexanone
13.379 Tetrachloroethene
14.551 m,p-Xylenes
15.529 p-Bromofluorobenzene
16.168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

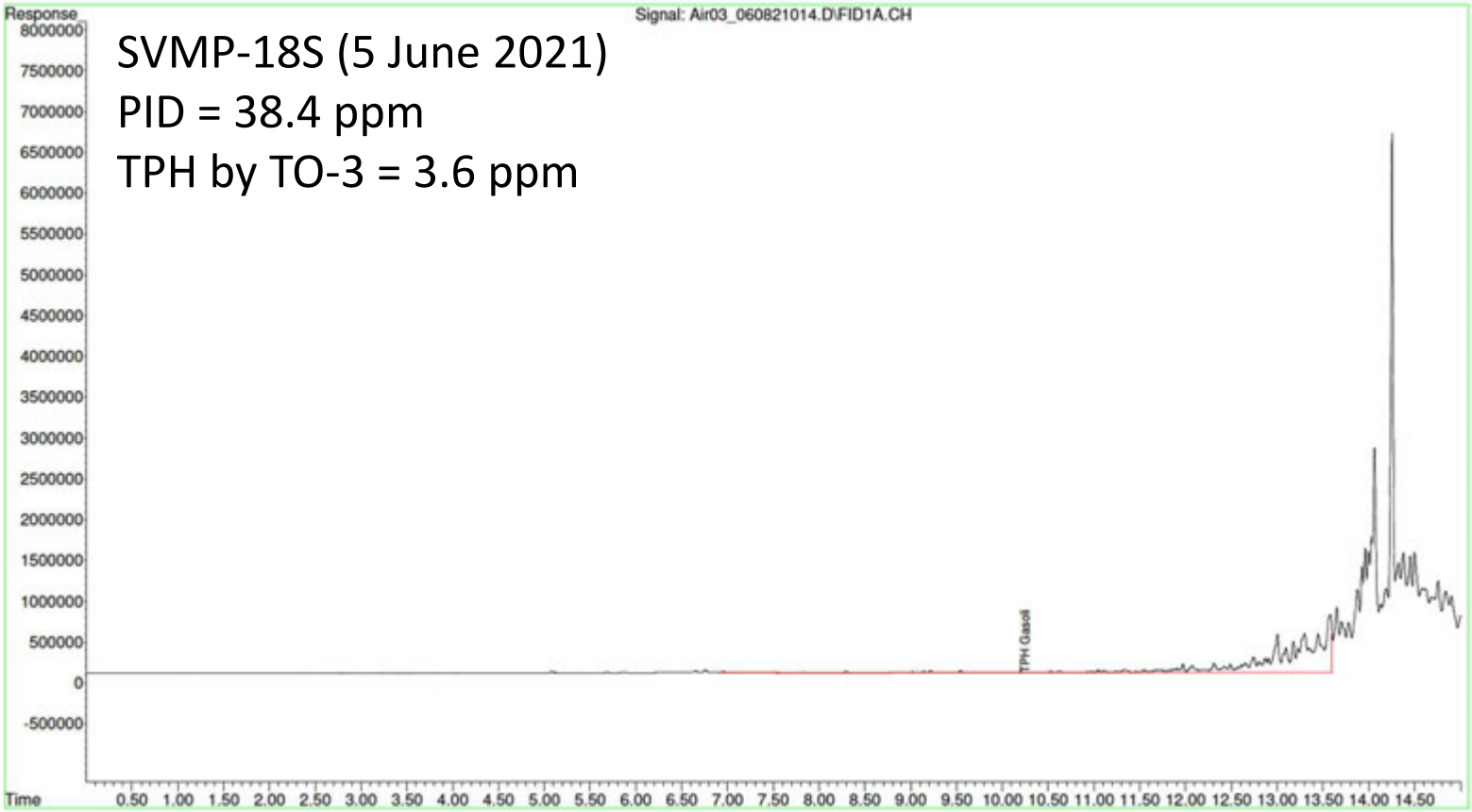

+ TIC-B Scan Air08_062221011.D (446675-008,269254,2x,PDF:1,C10363)
SV20D (14 June 2021) – PID = 2150 ppb
Counts
x10^6
5.373 Acetone
7.136 trans-1,2-Dichloroethene
8.183 Ethyl Acetate
9.920 Cyclohexane
12.313 Toluene
13.375 Tetrachloroethene
14.544 m,p-Xylenes
15.672 Isopropylbenzene
15.532 p-Bromofluorobenzene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

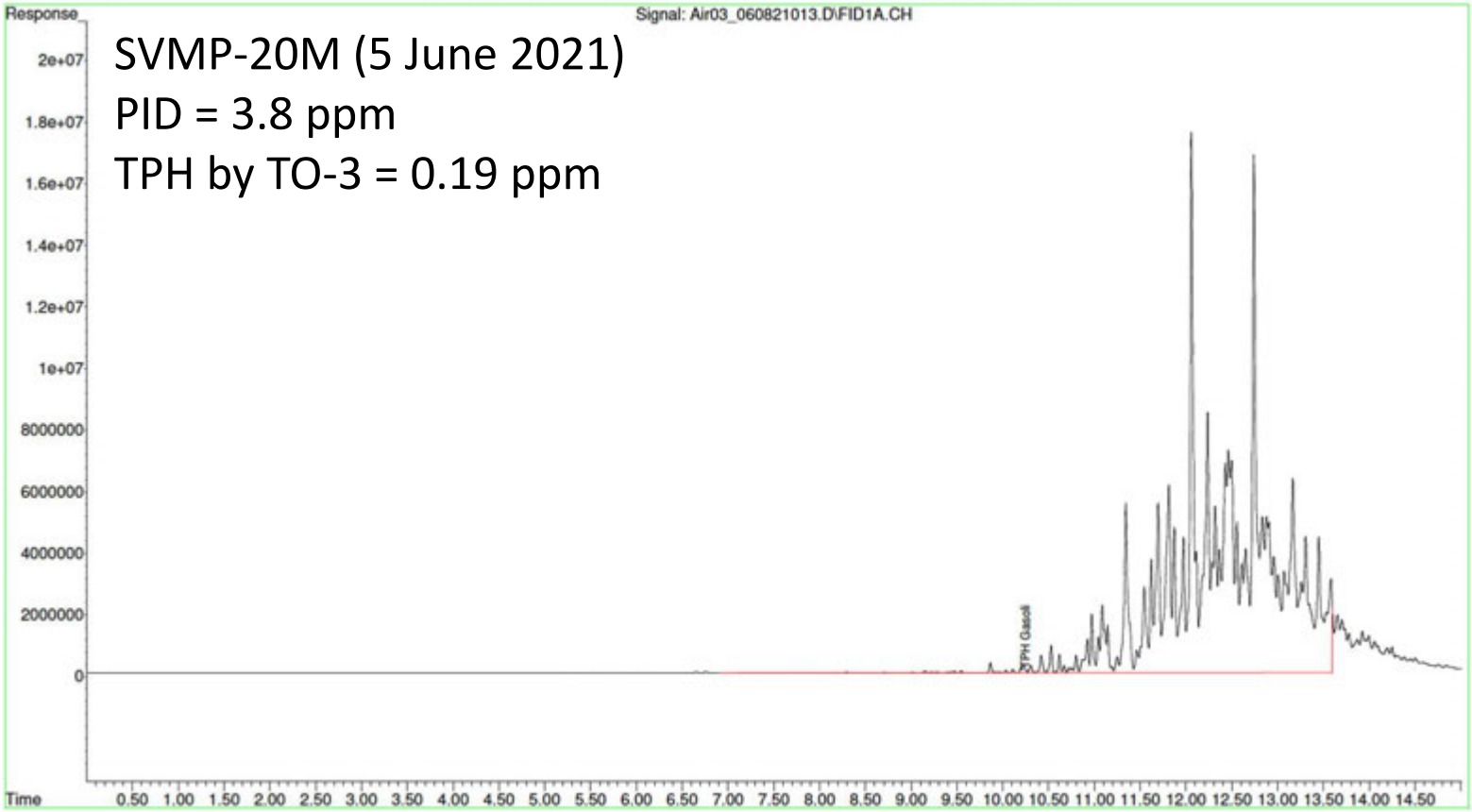
June 2021
Soil Vapor Samples

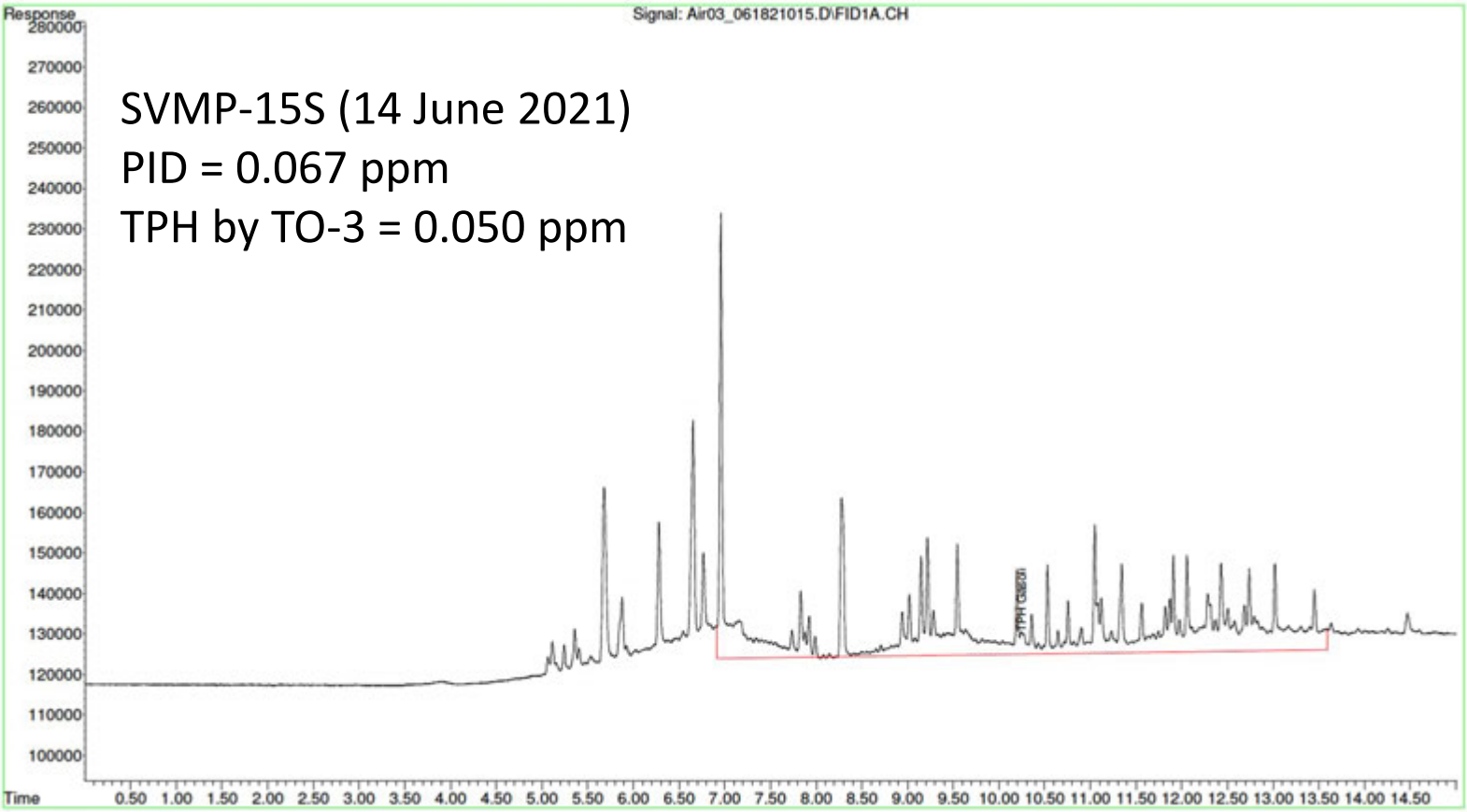
FID Chromatograms

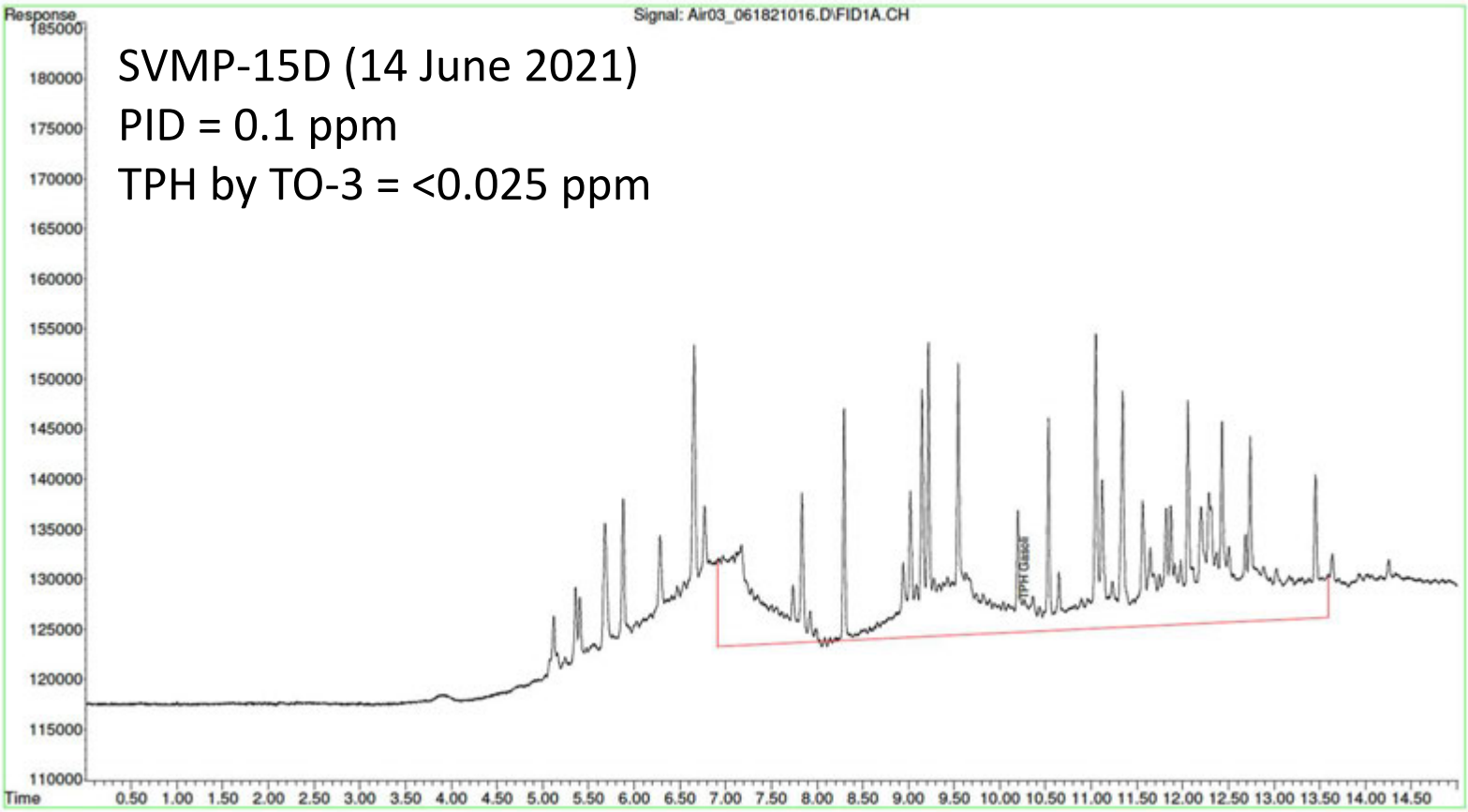

Signal: Air03_060821005.D\FID1A.CH
Response
Lab Blank (QC928415)
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
TPH Gasoil
Time

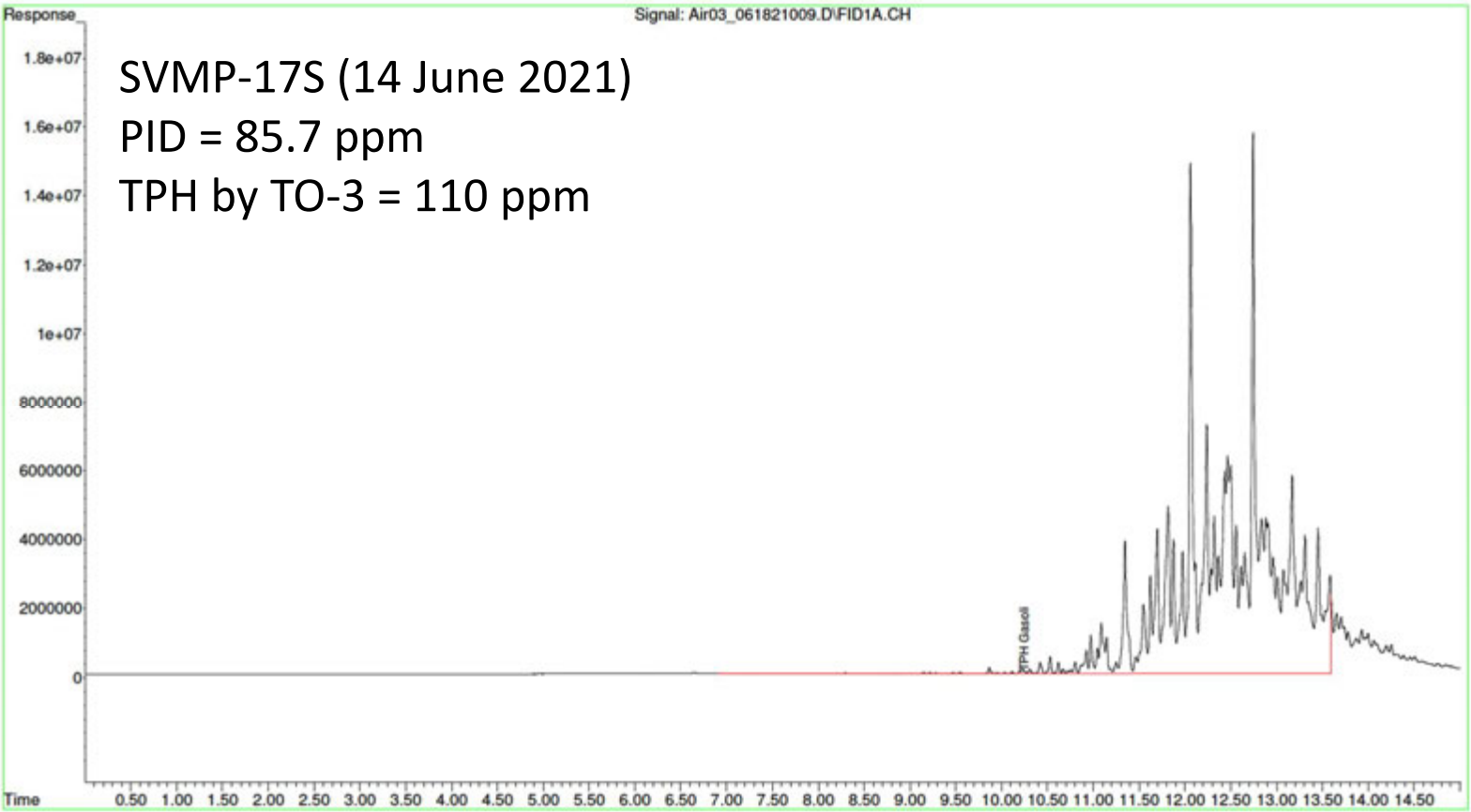

Signal: Air03_060821016.D\FID1A.CH
Response
SVMP-17S (5 June 2021)
PID = 94 ppm
TPH by TO-3 = 130 ppm
TPH Gasoil
Time

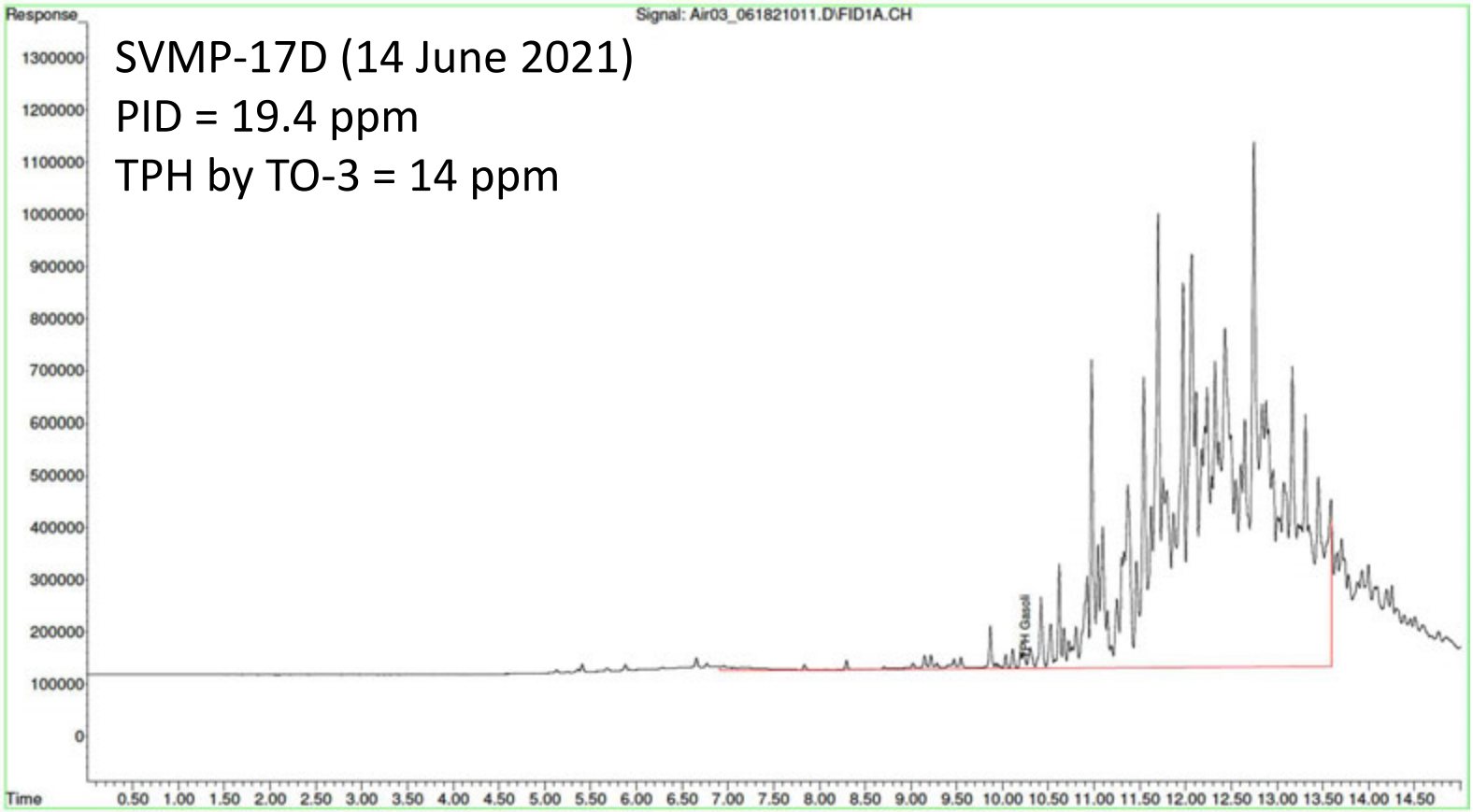

Signal: Air03_060821014.D\FID1A.CH
Response
SVMP-18S (5 June 2021)
PID = 38.4 ppm
TPH by TO-3 = 3.6 ppm
TPH Gasoil
Time

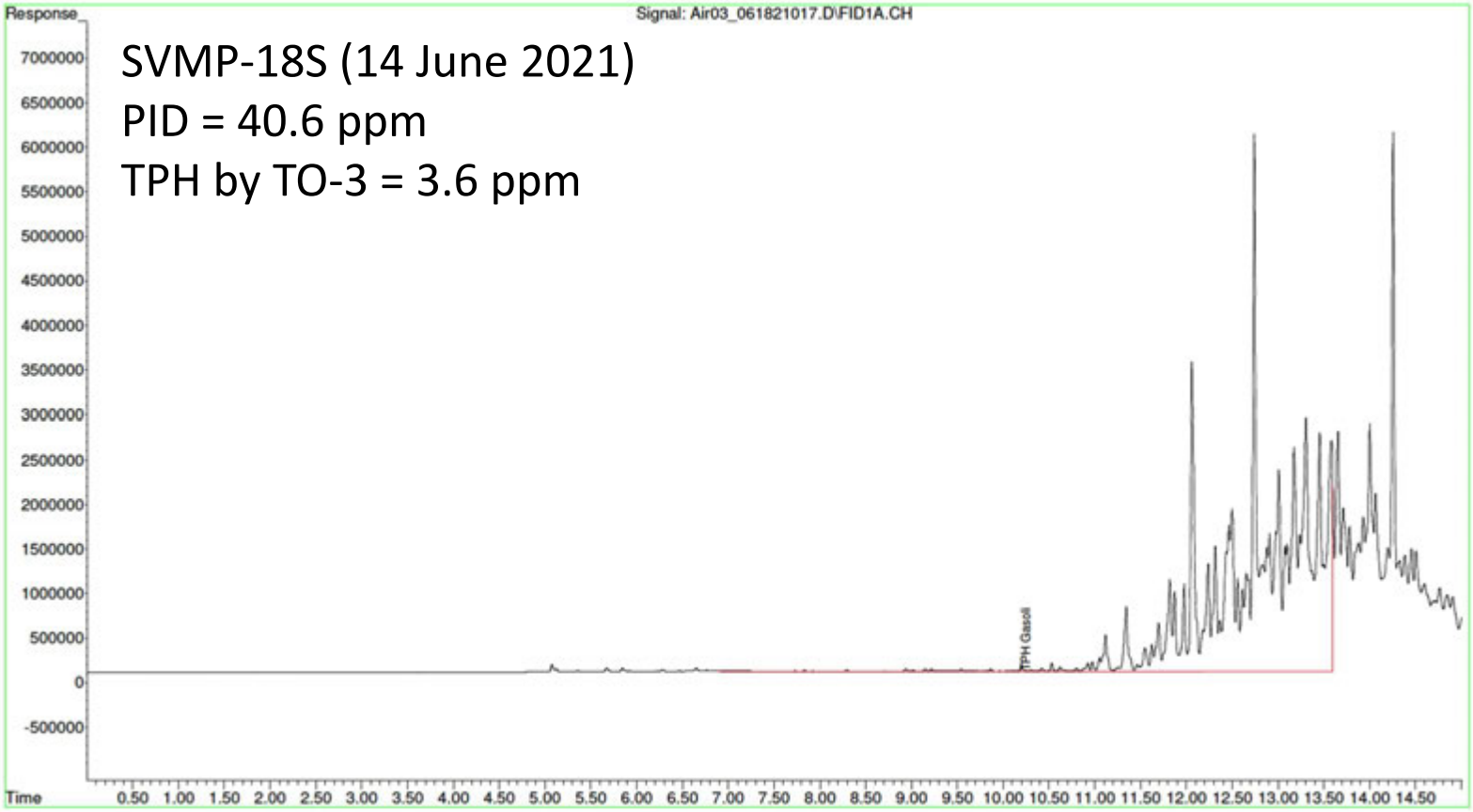

Signal: Air03_060821013.D\FID1A.CH
Response
SVMP-20M (5 June 2021)
PID = 3.8 ppm
TPH by TO-3 = 0.19 ppm
TPH Gasoil
Time

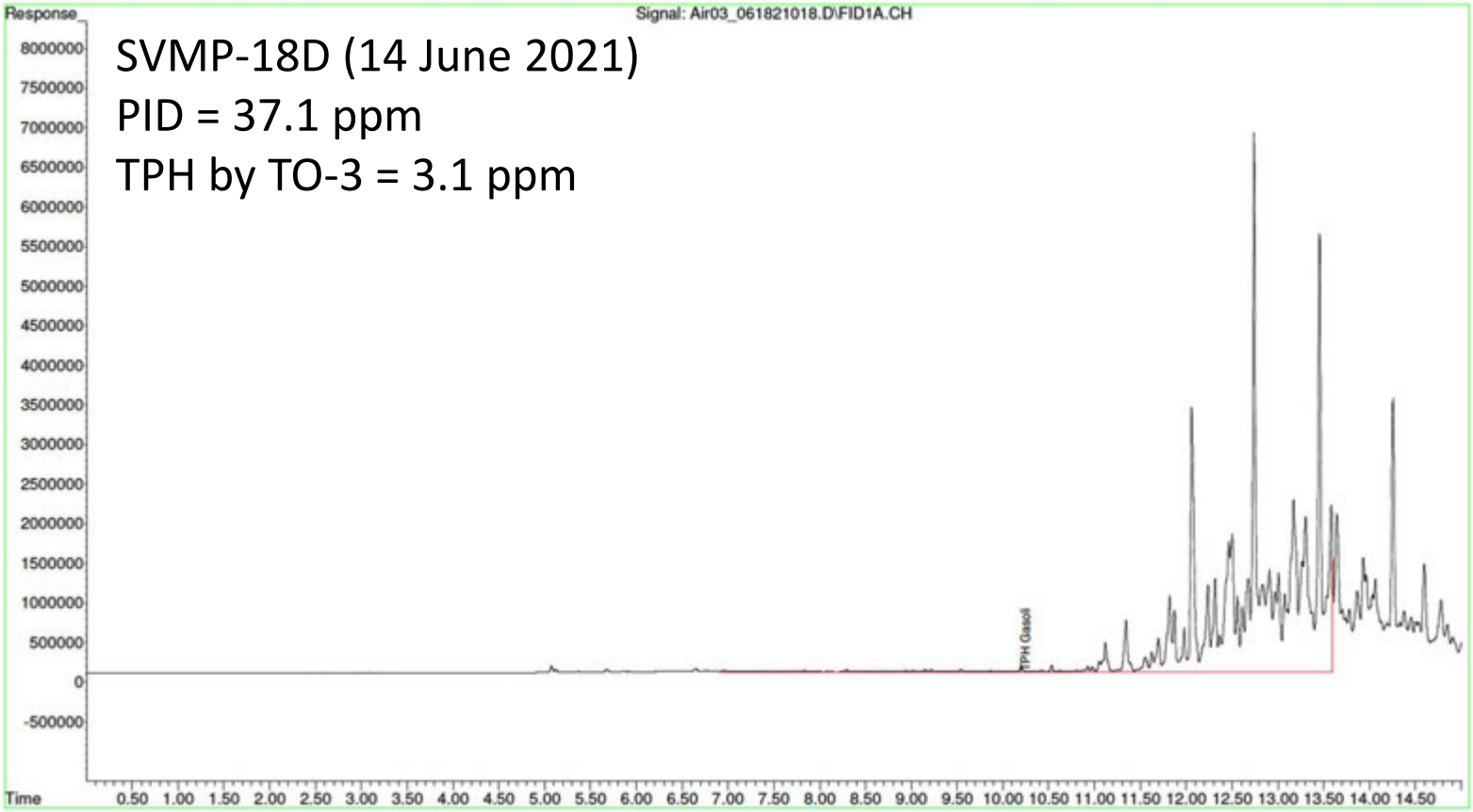

Signal: Air03_061821015.D\FID1A.CH
Response
Time
SVMP-15S (14 June 2021)
PID = 0.067 ppm
TPH by TO-3 = 0.050 ppm

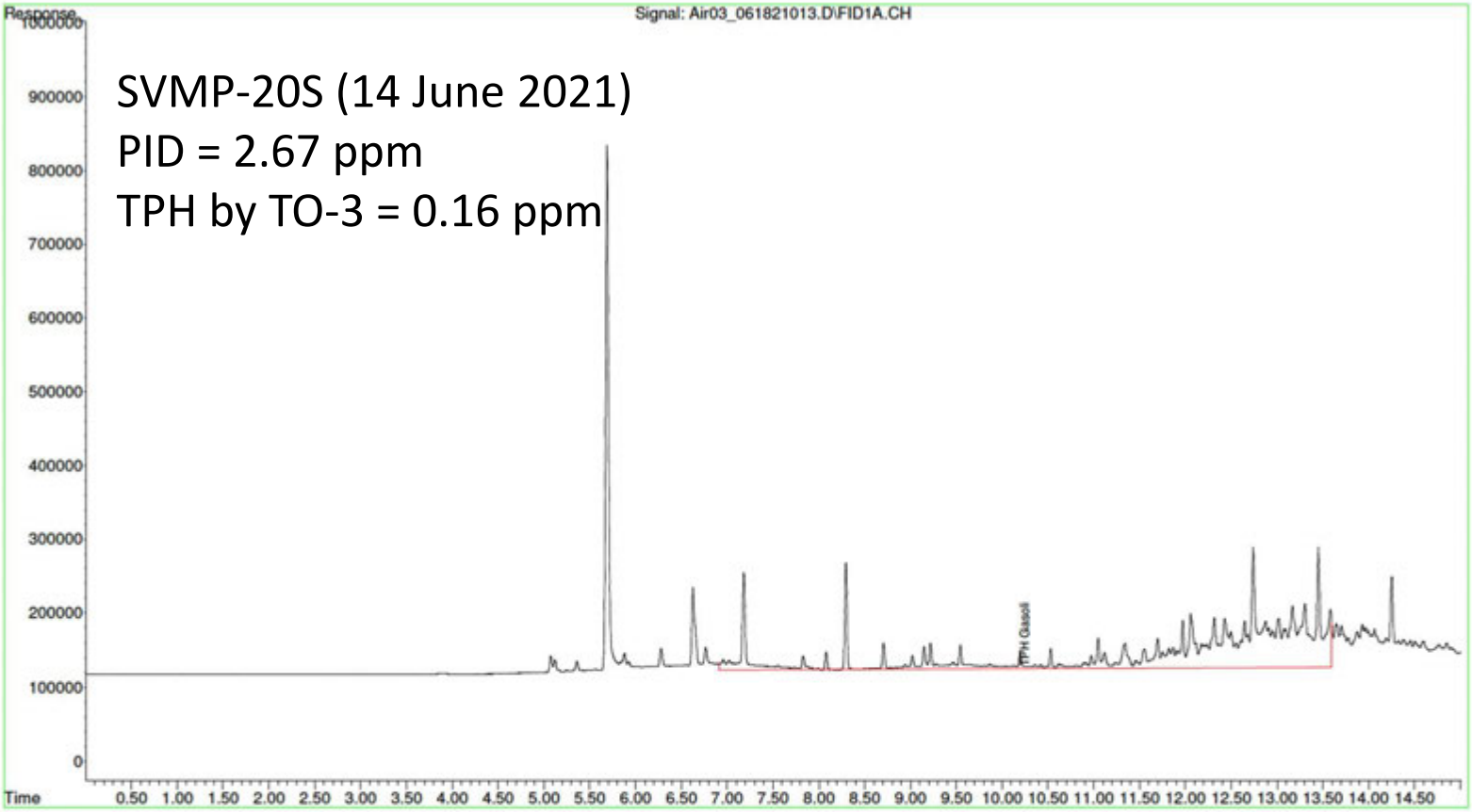

Signal: Air03_061821016.D\FID1A.CH
Response
Time
SVMP-15D (14 June 2021)
PID = 0.1 ppm
TPH by TO-3 = <0.025 ppm

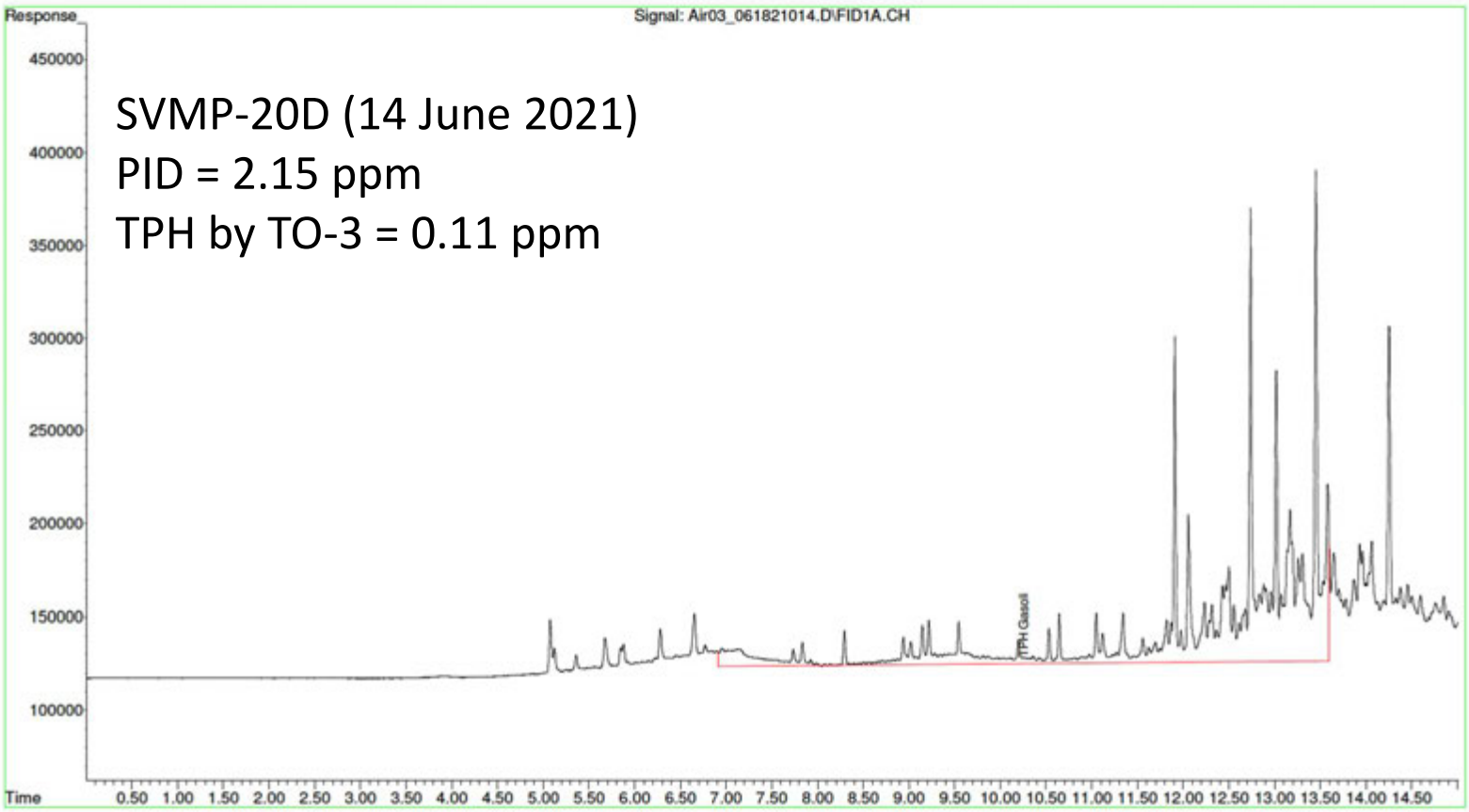

Signal: Air03_061821009.D\FID1A.CH
Response
SVMP-17S (14 June 2021)
PID = 85.7 ppm
TPH by TO-3 = 110 ppm
TPH Gasoil
Time


Signal: Air03_061821011.D\FID1A.CH
Response
SVMP-17D (14 June 2021)
PID = 19.4 ppm
TPH by TO-3 = 14 ppm
TPH Gasoil
Time


Signal: Air03_061821017.D\FID1A.CH
Response
SVMP-18S (14 June 2021)
PID = 40.6 ppm
TPH by TO-3 = 3.6 ppm
TPH Gasoil
Time

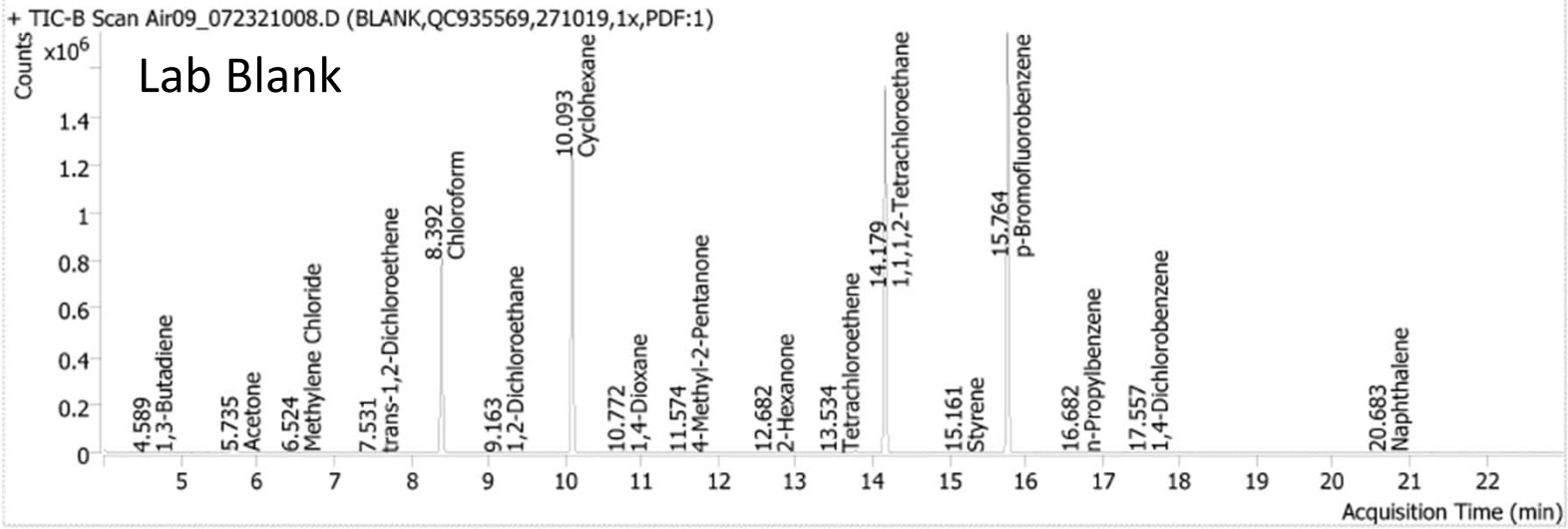

Signal: Air03_061821018.D\FID1A.CH
Response
SVMP-18D (14 June 2021)
PID = 37.1 ppm
TPH by TO-3 = 3.1 ppm
TPH Gasoil
Time

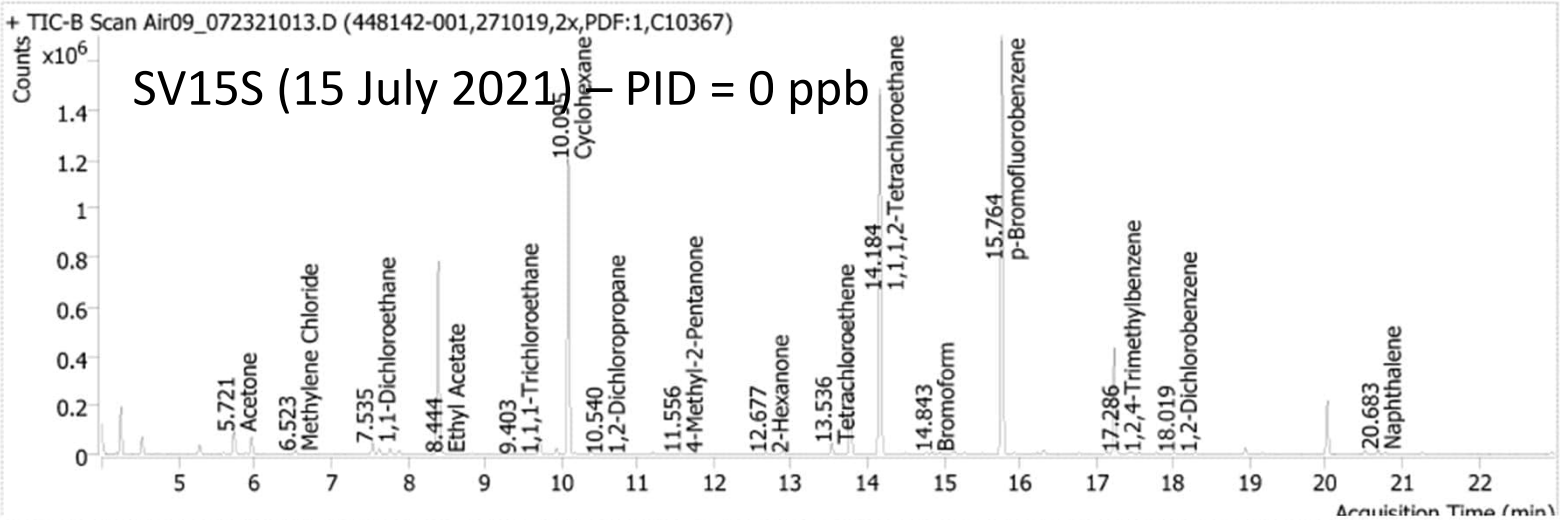

Signal: Air03_061821013.D\FID1A.CH
Response
SVMP-20S (14 June 2021)
PID = 2.67 ppm
TPH by TO-3 = 0.16 ppm
TPH Gasoil
Time

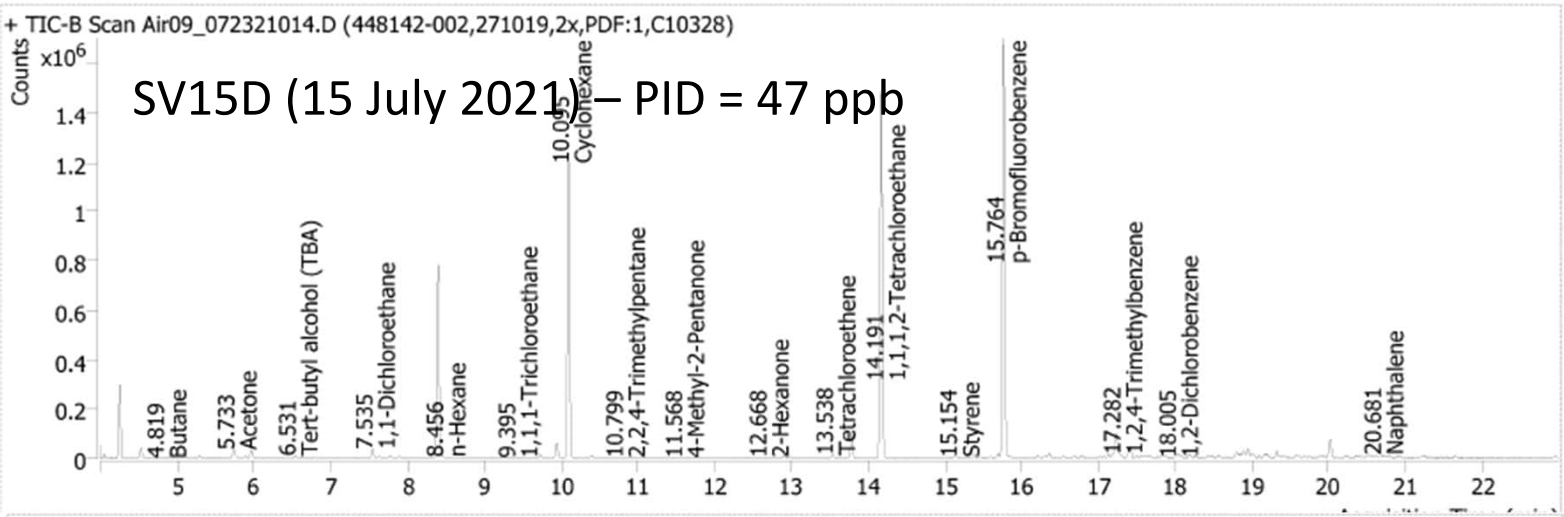

Signal: Air03_061821014.D\FID1A.CH
Response
SVMP-20D (14 June 2021)
PID = 2.15 ppm
TPH by TO-3 = 0.11 ppm
TPH Gasoil
Time

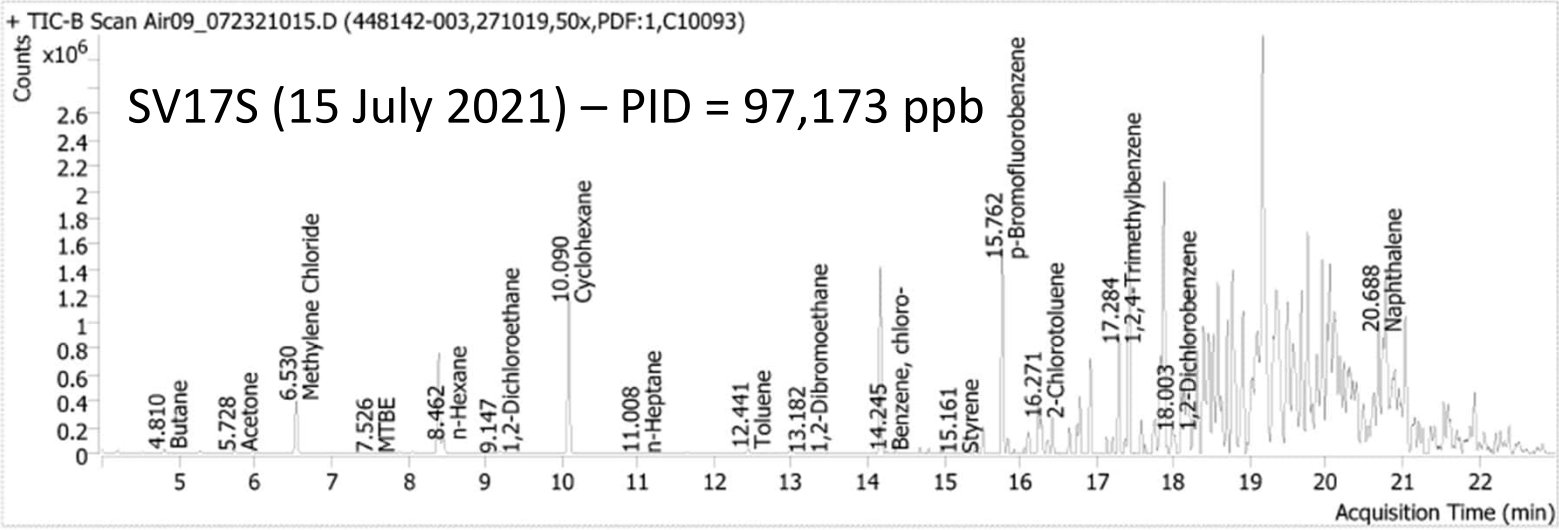
July 2021
Soil Vapor Samples

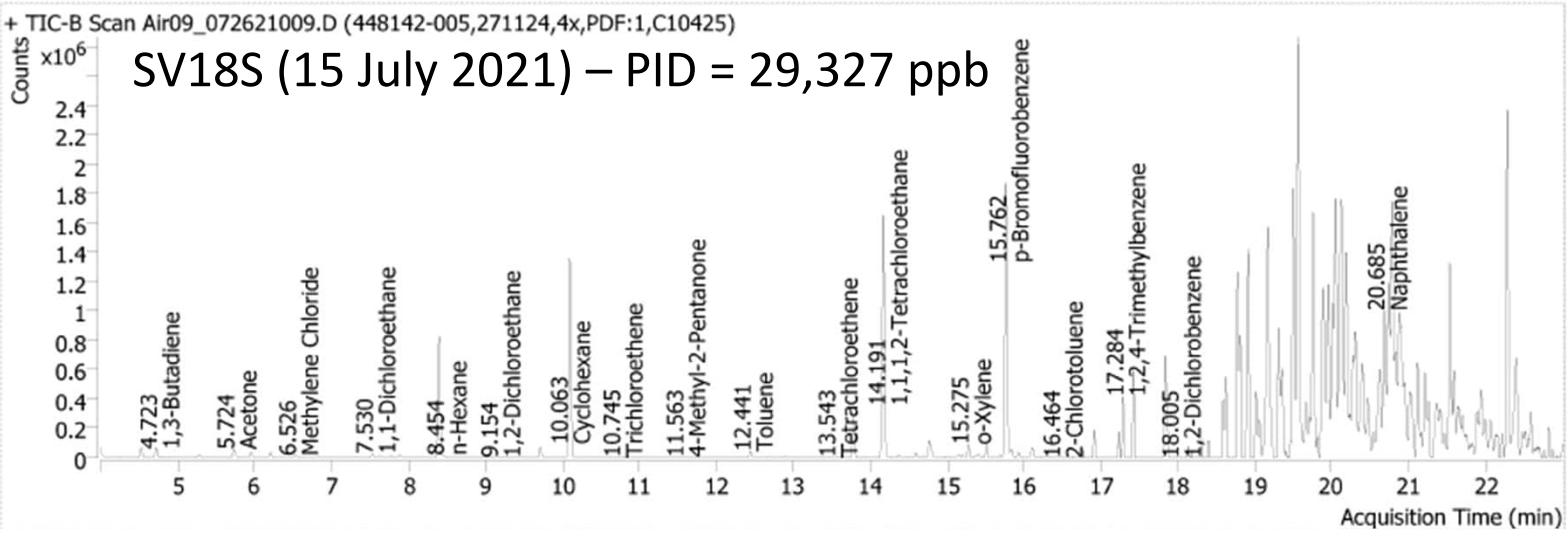
Mass Spec Chromatograms

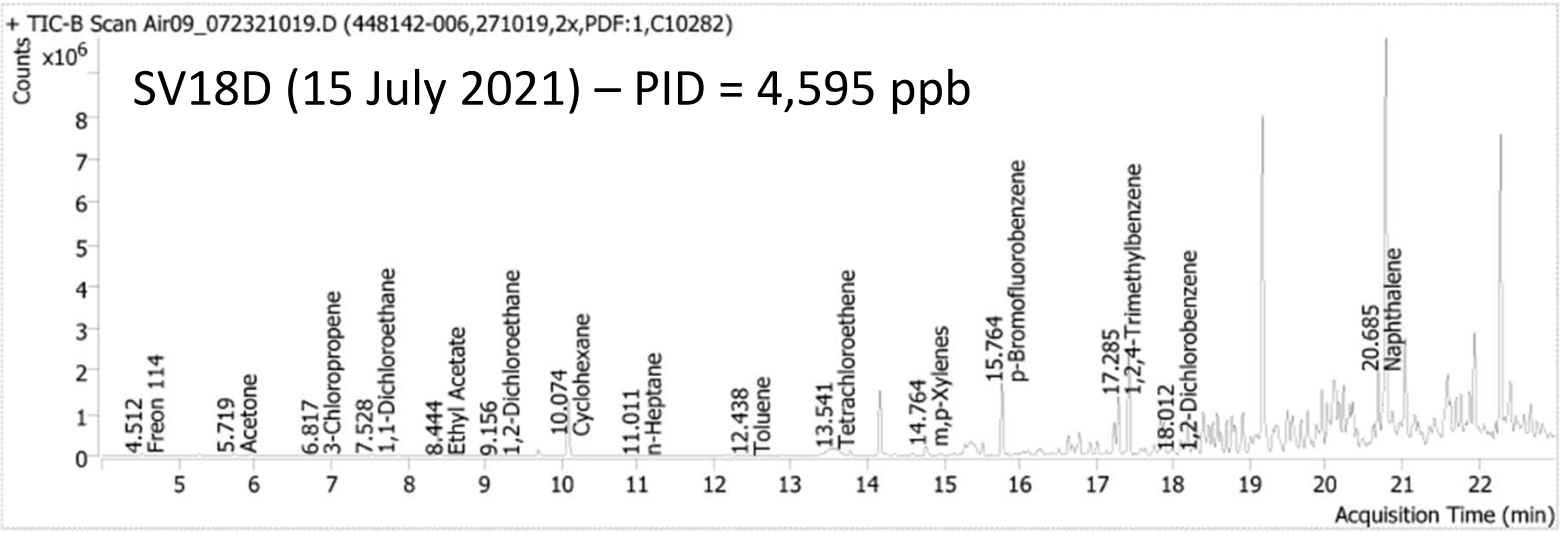

+ TIC-B Scan Air09_072321008.D (BLANK,QC935569,271019,1x,PDF:1)
Lab Blank
Counts
x10^6
4.589 1,3-Butadiene
5.735 Acetone
6.524 Methylene Chloride
7.531 trans-1,2-Dichloroethene
8.392 Chloroform
9.163 1,2-Dichloroethane
10.093 Cyclohexane
10.772 1,4-Dioxane
11.574 4-Methyl-2-Pentanone
12.682 2-Hexanone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

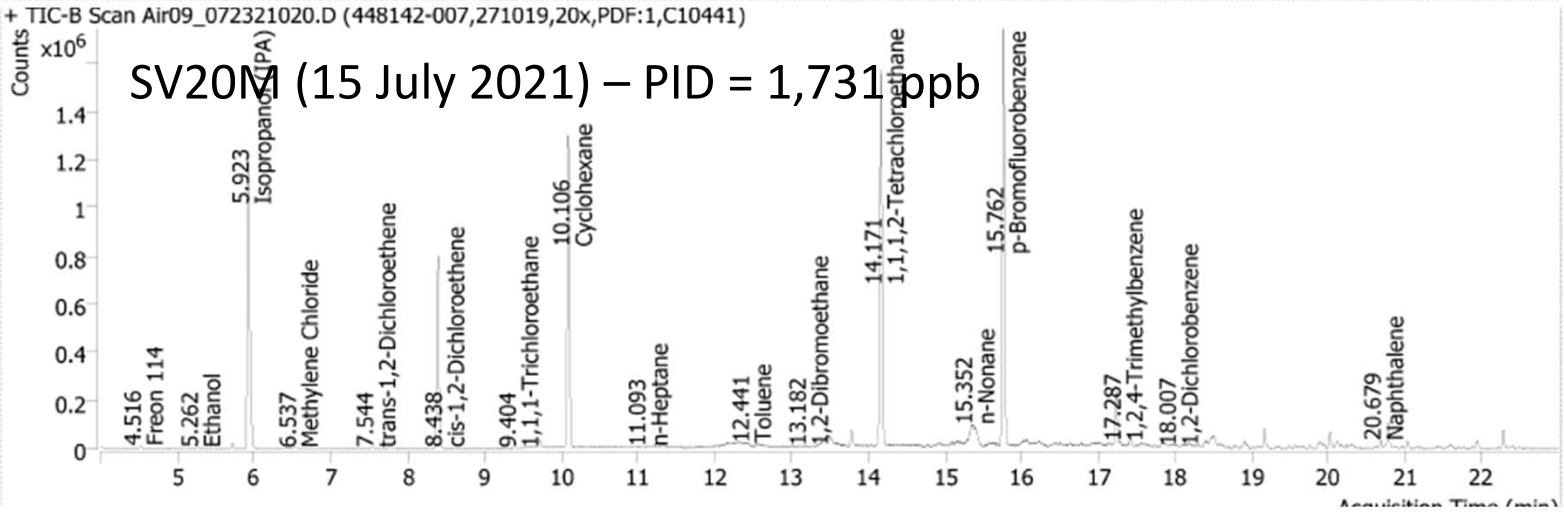

+ TIC-B Scan Air09_072321013.D (448142-001,271019,2x,PDF:1,C10367)
SV15S (15 July 2021) – PID = 0 ppb
Counts
x10^6
5.721 Acetone
6.523 Methylene Chloride
7.535 1,1-Dichloroethane
8.444 Ethyl Acetate
9.403 1,1,1-Trichloroethane
10.095 Cyclohexane
10.540 1,2-Dichloropropane
11.556 4-Methyl-2-Pentanone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

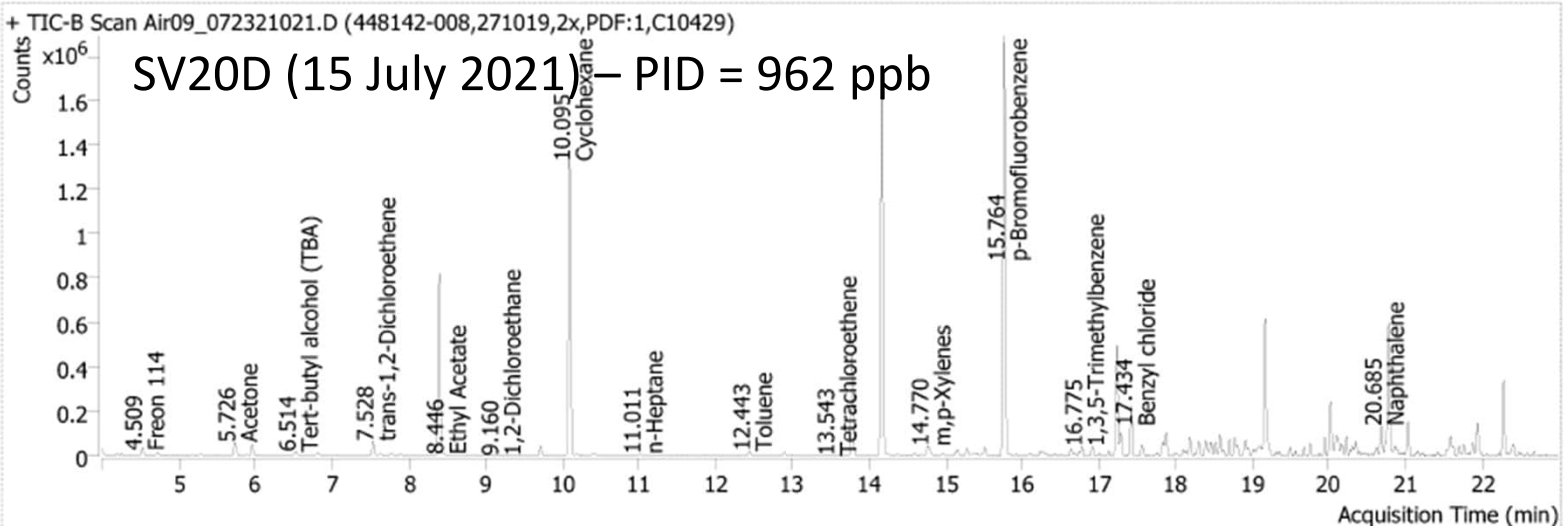

+ TIC-B Scan Air09_072321014.D (448142-002,271019,2x,PDF:1,C10328)
SV15D (15 July 2021) – PID = 47 ppb
Counts
x10^6
4.819 Butane
5.733 Acetone
6.531 Tert-butyl alcohol (TBA)
7.535 1,1-Dichloroethane
8.456 n-Hexane
9.395 1,1,1-Trichloroethane
10.095 Cyclohexane
10.799 2,2,4-Trimethylpentane
11.568 4-Methyl-2-Pentanone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


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


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

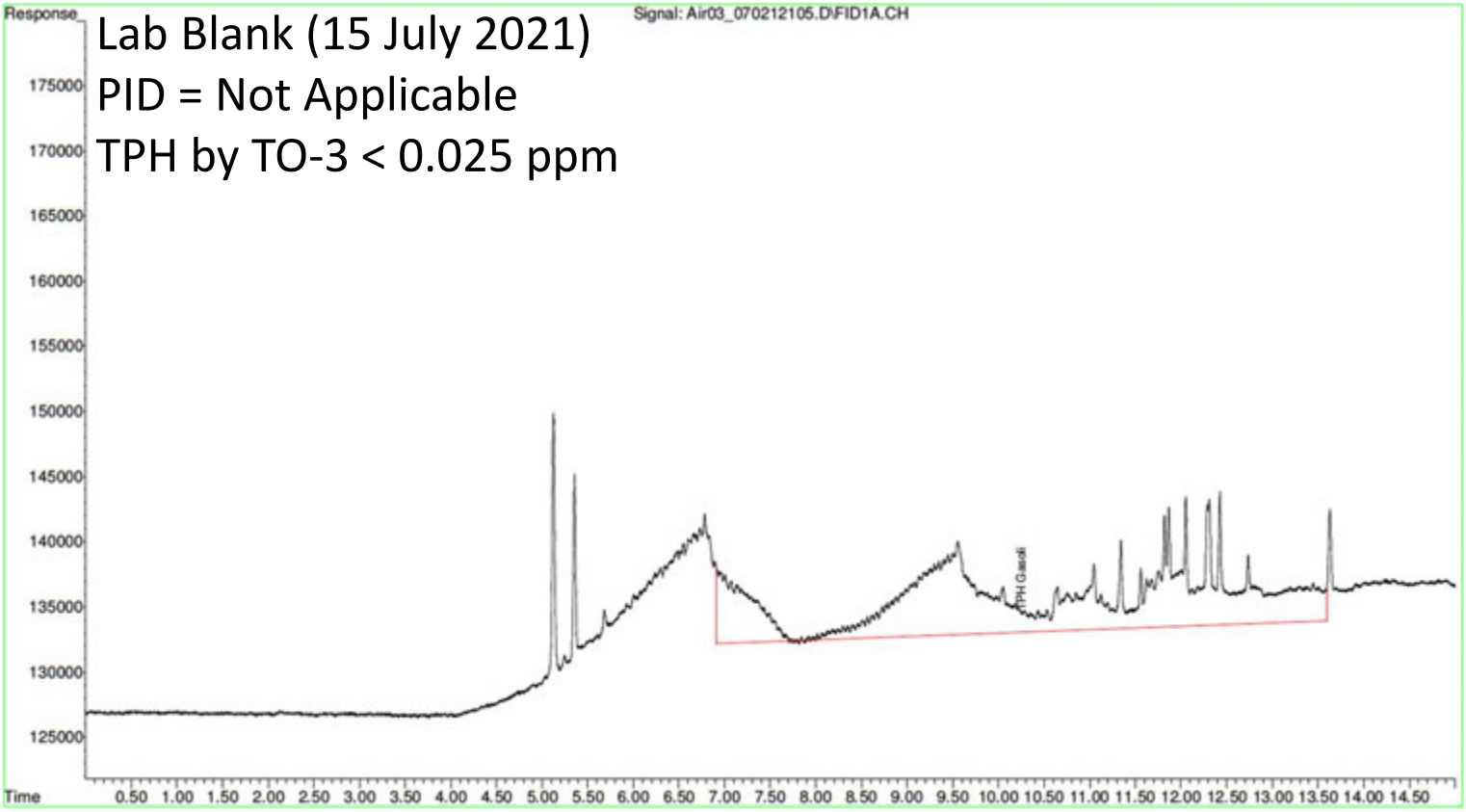

+ TIC-B Scan Air09_072321019.D (448142-006,271019,2x,PDF:1,C10282)
SV18D (15 July 2021) – PID = 4,595 ppb
Counts
x10^6
4.512 Freon 114
5.719 Acetone
6.817 3-Chloropropene
7.528 1,1-Dichloroethane
8.444 Ethyl Acetate
9.156 1,2-Dichloroethane
10.074 Cyclohexane
11.011 n-Heptane
12.438 Toluene
13.541 Tetrachloroethene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

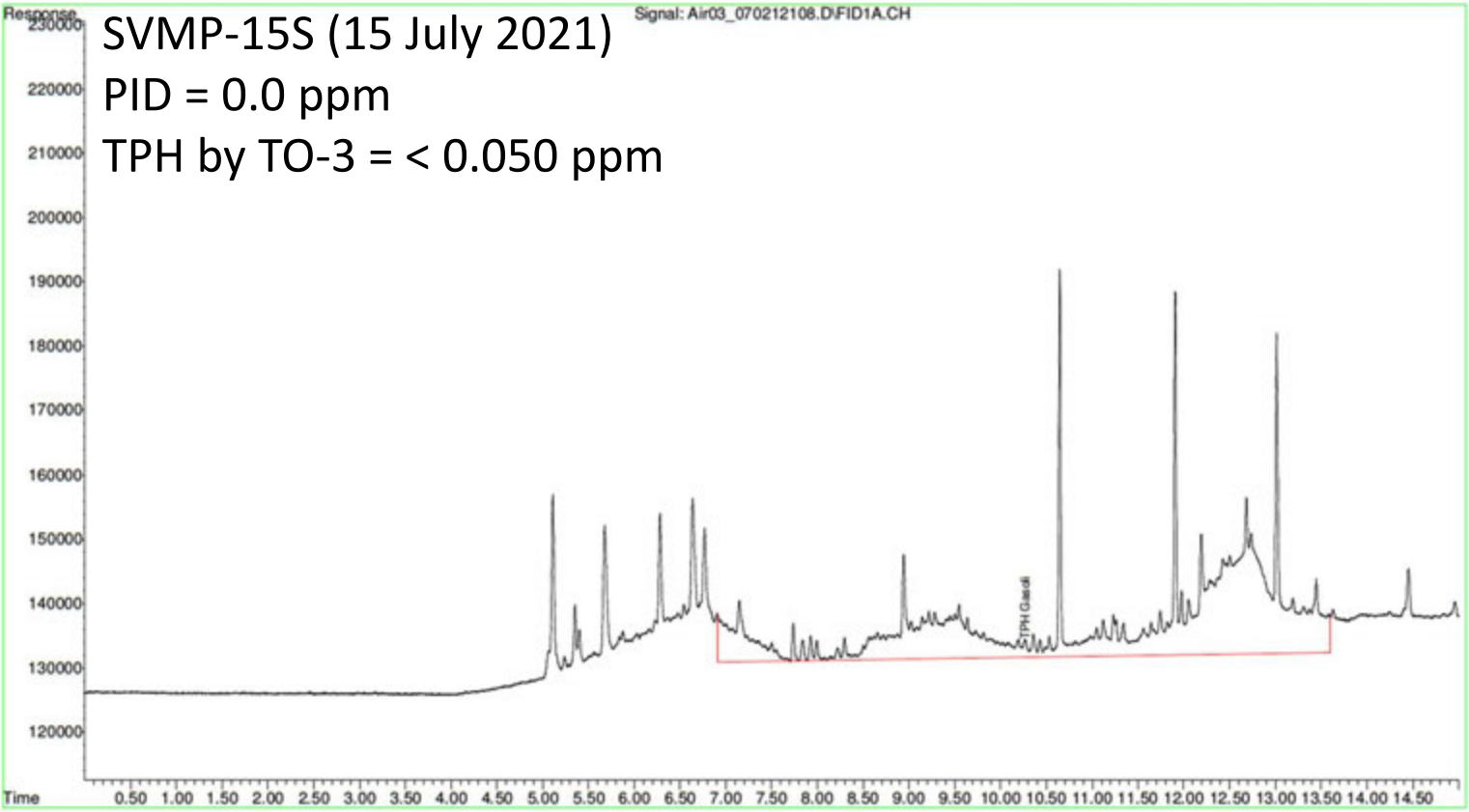

+ TIC-B Scan Air09_072321020.D (448142-007,271019,20x,PDF:1,C10441)
SV20M (15 July 2021) – PID = 1,731 ppb
Counts
x10^6
4.516 Freon 114
5.262 Ethanol
5.923 Isopropanol (IPA)
6.537 Methylene Chloride
7.544 trans-1,2-Dichloroethene
8.438 cis-1,2-Dichloroethene
9.404 1,1,1-Trichloroethane
10.106 Cyclohexane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

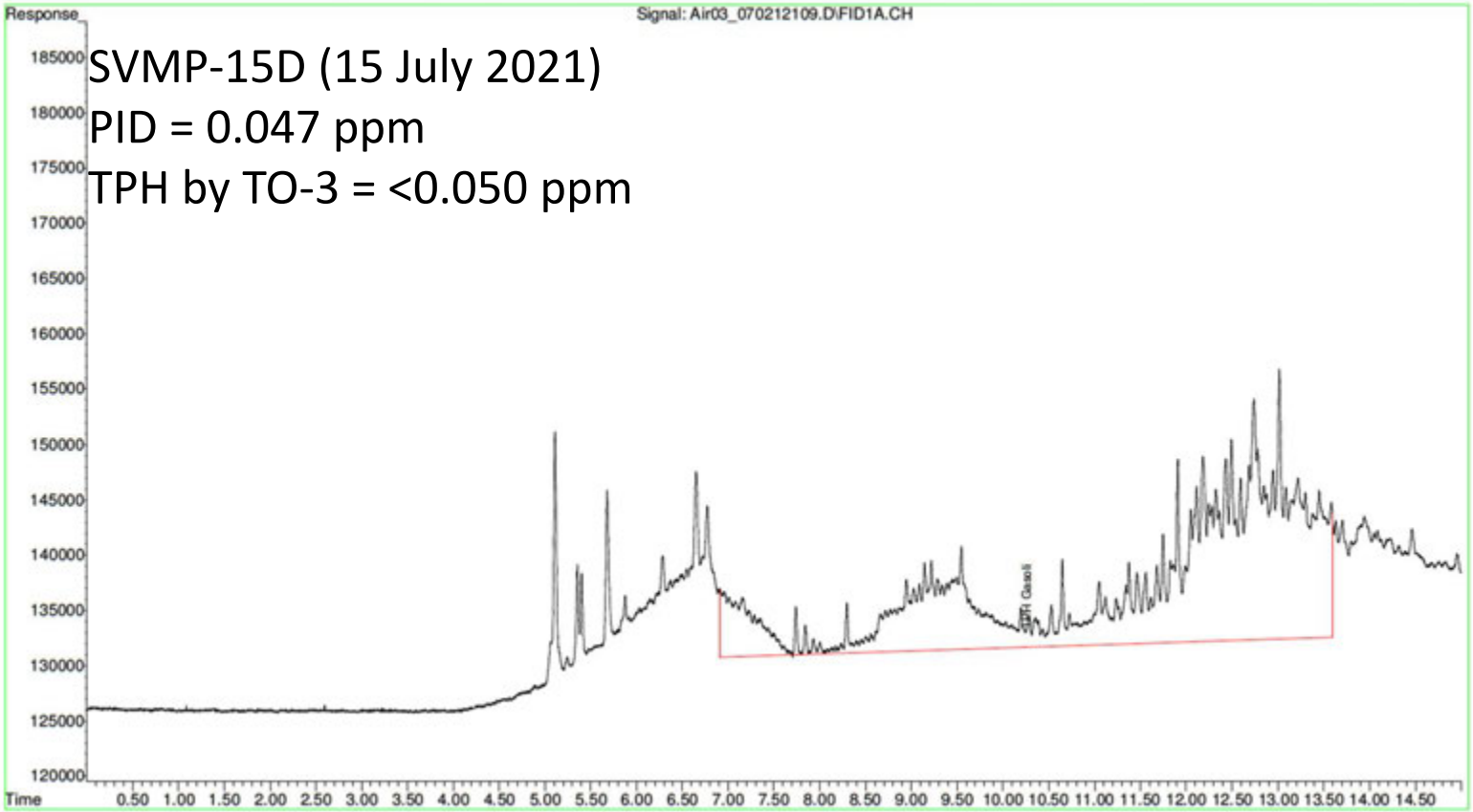

+ TIC-B Scan Air09_072321021.D (448142-008,271019,2x,PDF:1,C10429)
SV20D (15 July 2021) – PID = 962 ppb
Counts
x10^6
4.509 Freon 114
5.726 Acetone
6.514 Tert-butyl alcohol (TBA)
7.528 trans-1,2-Dichloroethene
8.446 Ethyl Acetate
9.160 1,2-Dichloroethane
10.095 Cyclohexane
11.011 n-Heptane
12.443 Toluene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

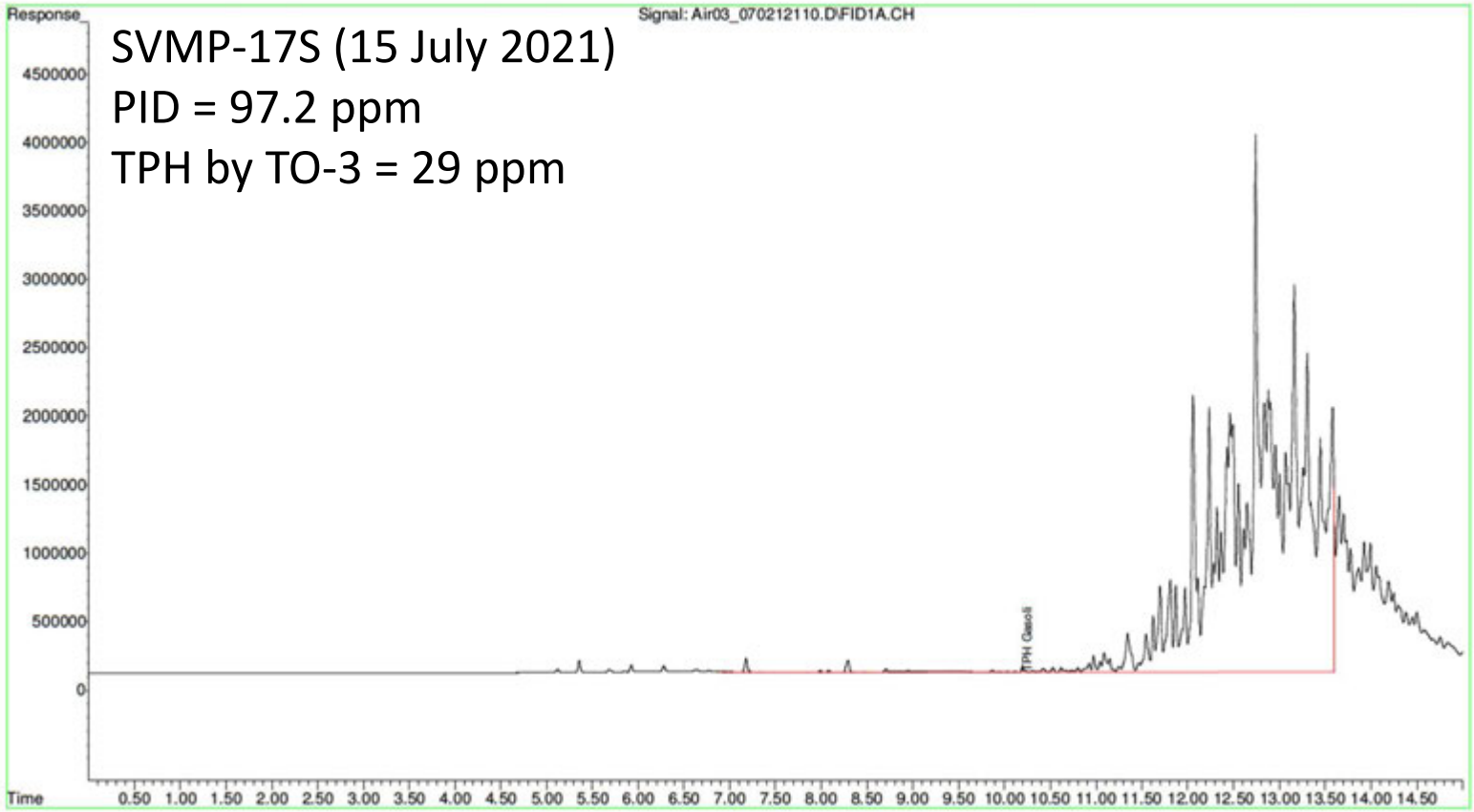
July 2021
Soil Vapor Samples

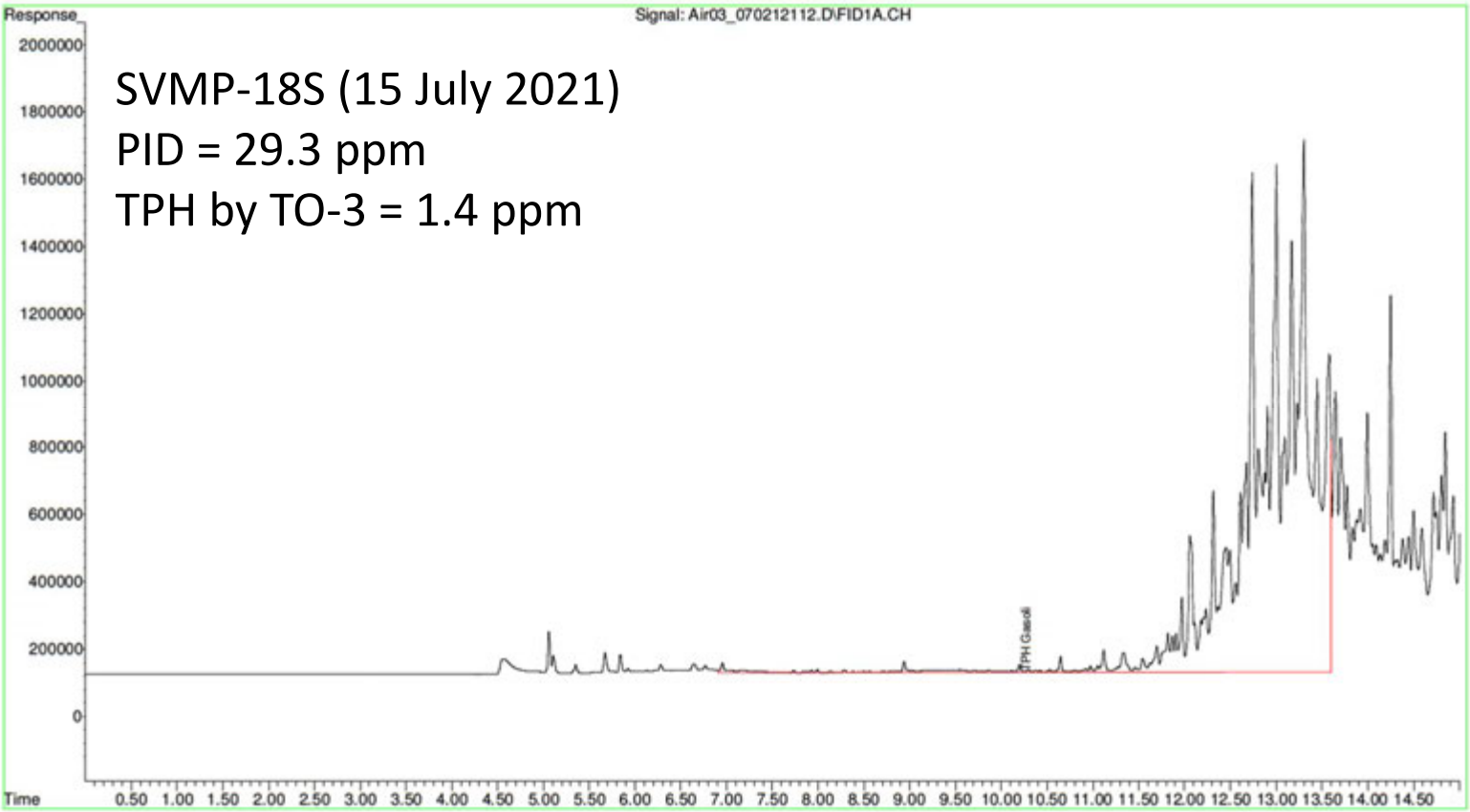
FID Chromatograms

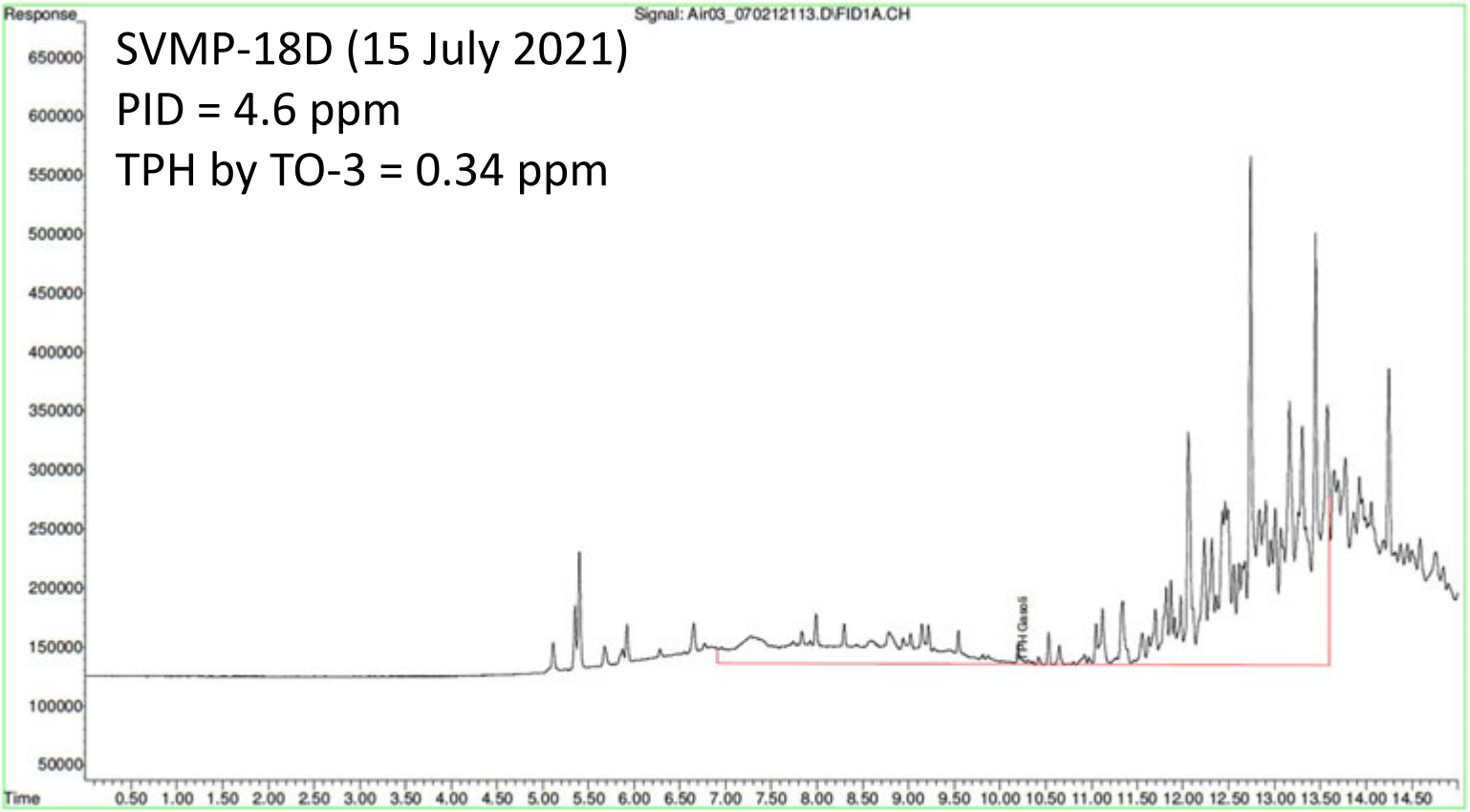

Lab Blank (15 July 2021)
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
Signal: Air03_070212105.D\FID1A.CH
Response
Time
TPH Gasoli

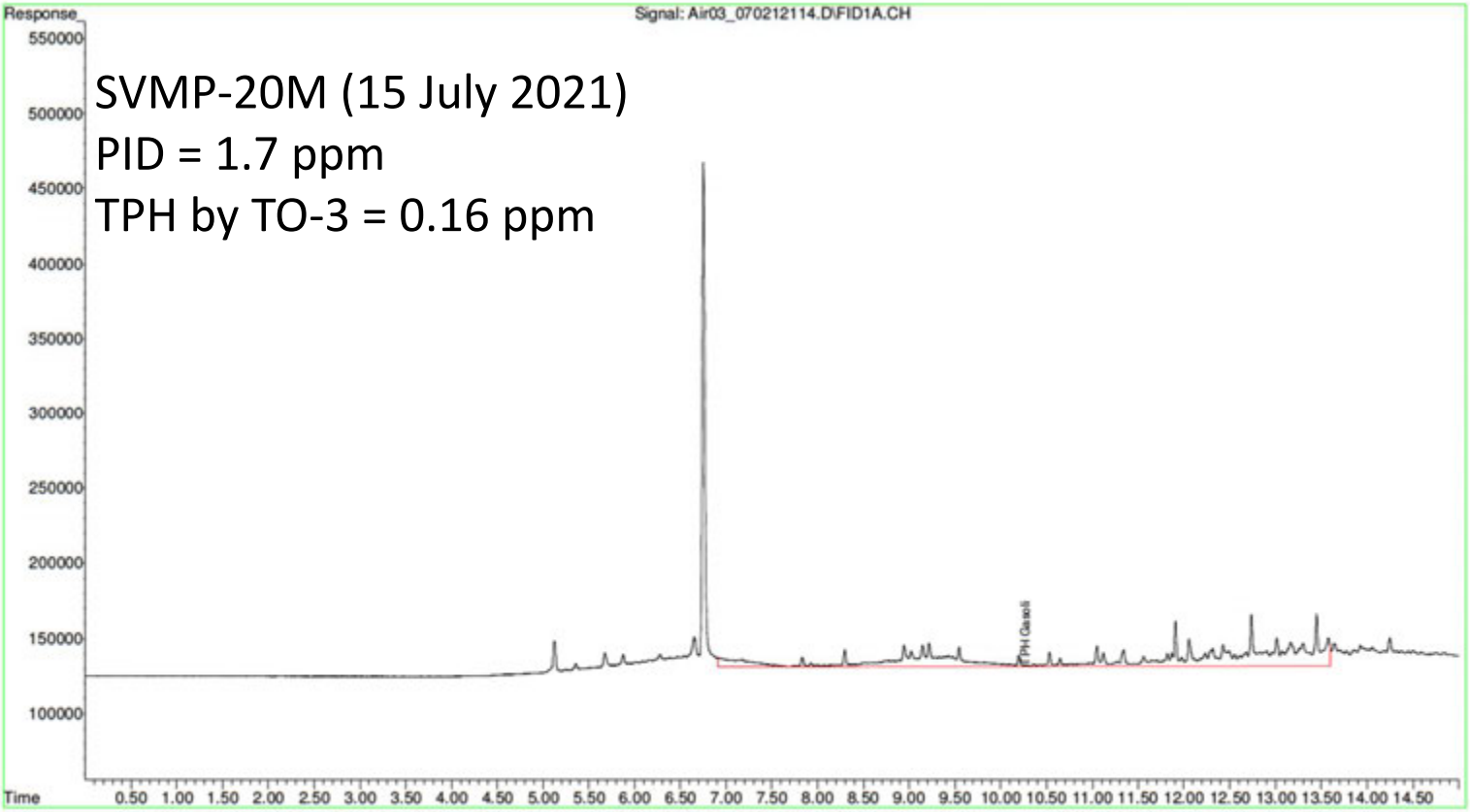

SVMP-15S (15 July 2021)
PID = 0.0 ppm
TPH by TO-3 = < 0.050 ppm
Signal: Air03_070212108.D\FID1A.CH
Response
Time
TPH Gasoli

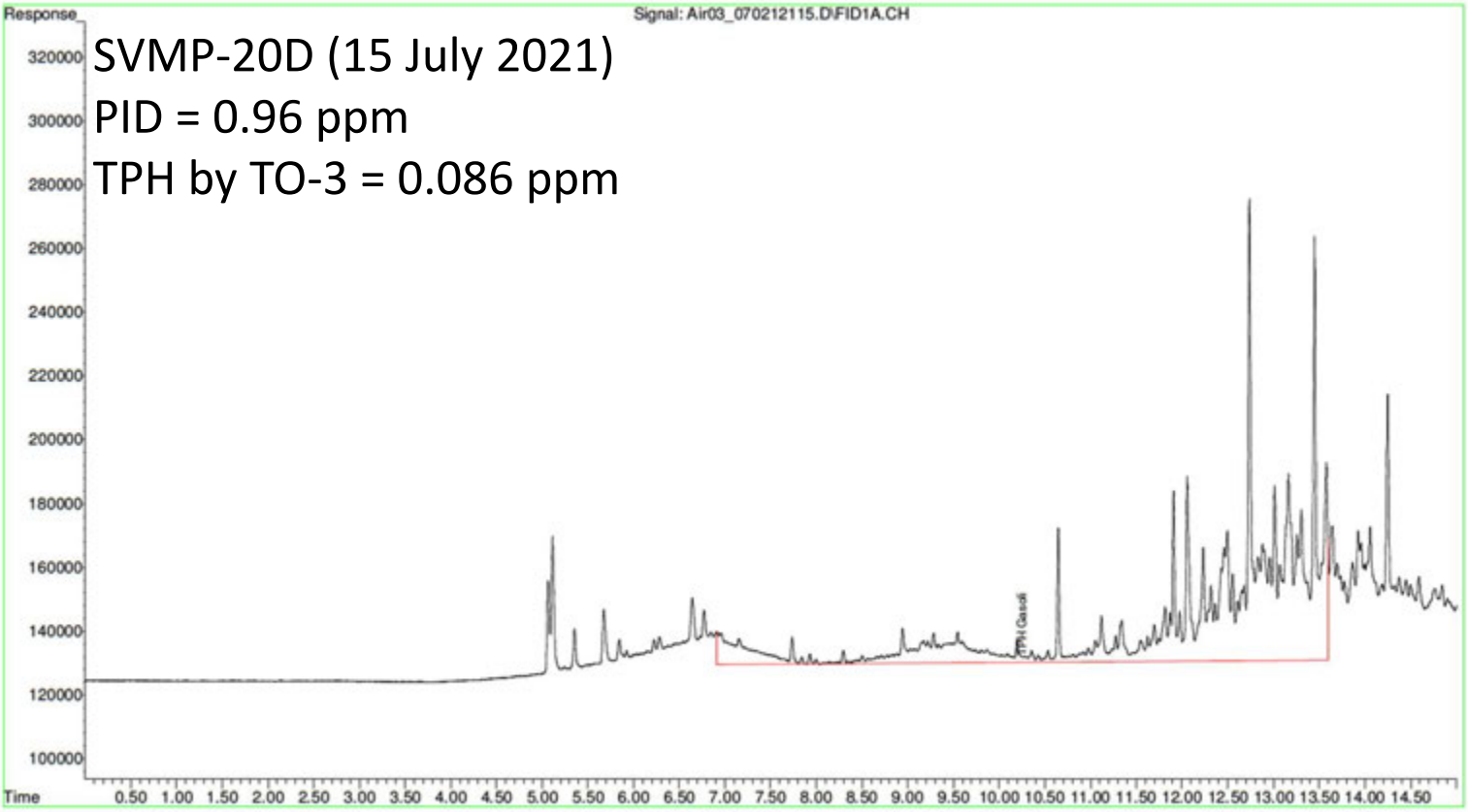

Response
Signal: Air03_070212109.D\FID1A.CH
SVMP-15D (15 July 2021)
PID = 0.047 ppm
TPH by TO-3 = <0.050 ppm
TPH Gasoli
Time


Response
Signal: Air03_070212110.D\FID1A.CH
SVMP-17S (15 July 2021)
PID = 97.2 ppm
TPH by TO-3 = 29 ppm
TPH Gasoli
Time


Signal: Air03_070212112.D\FID1A.CH
Response
SVMP-18S (15 July 2021)
PID = 29.3 ppm
TPH by TO-3 = 1.4 ppm
TPH Gasoli
Time

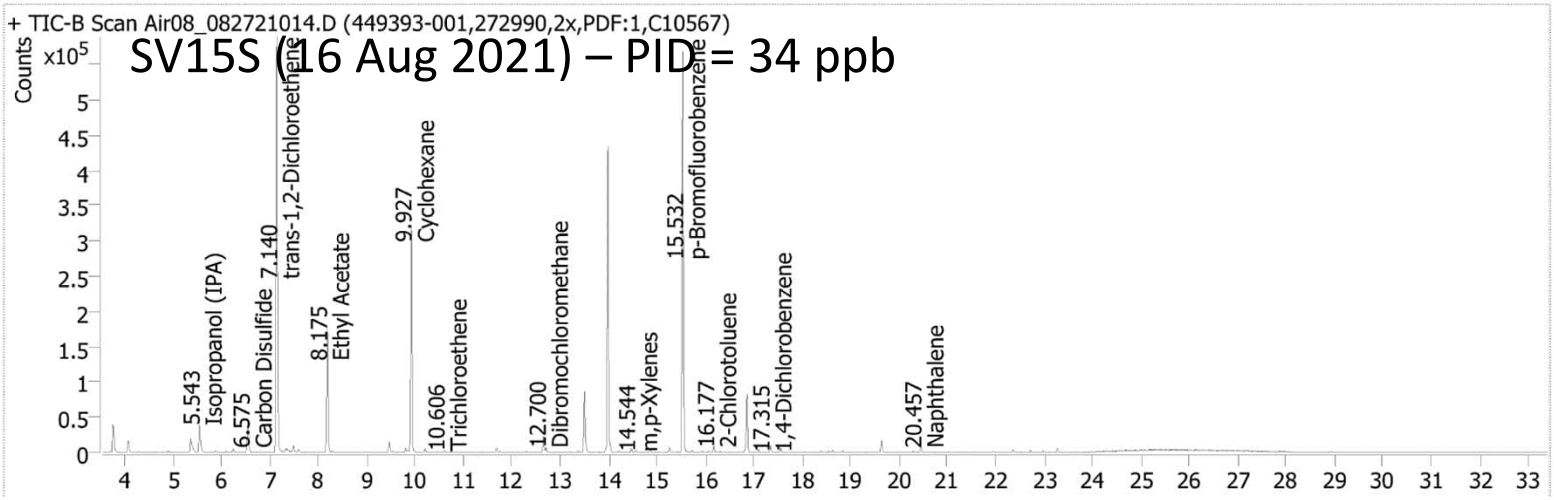

Signal: Air03_070212113.D\FID1A.CH
Response
SVMP-18D (15 July 2021)
PID = 4.6 ppm
TPH by TO-3 = 0.34 ppm
TPH Gasoli
Time

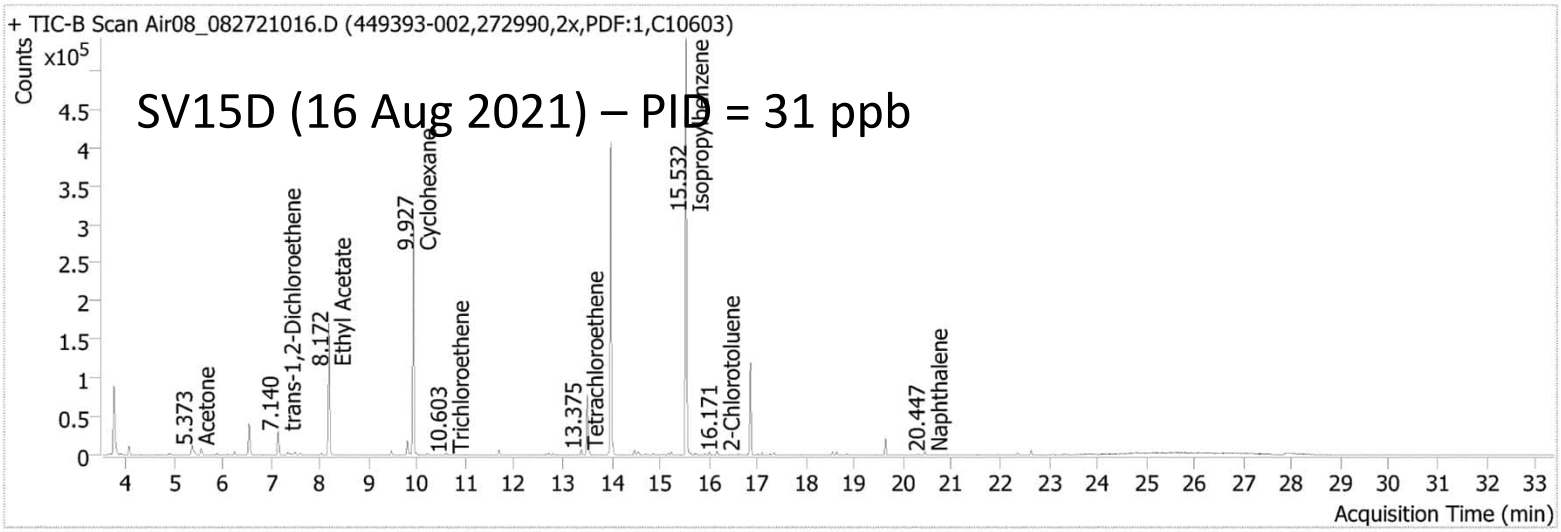

Signal: Air03_070212114.D\FID1A.CH
Response
SVMP-20M (15 July 2021)
PID = 1.7 ppm
TPH by TO-3 = 0.16 ppm
TPH Gasoli
Time

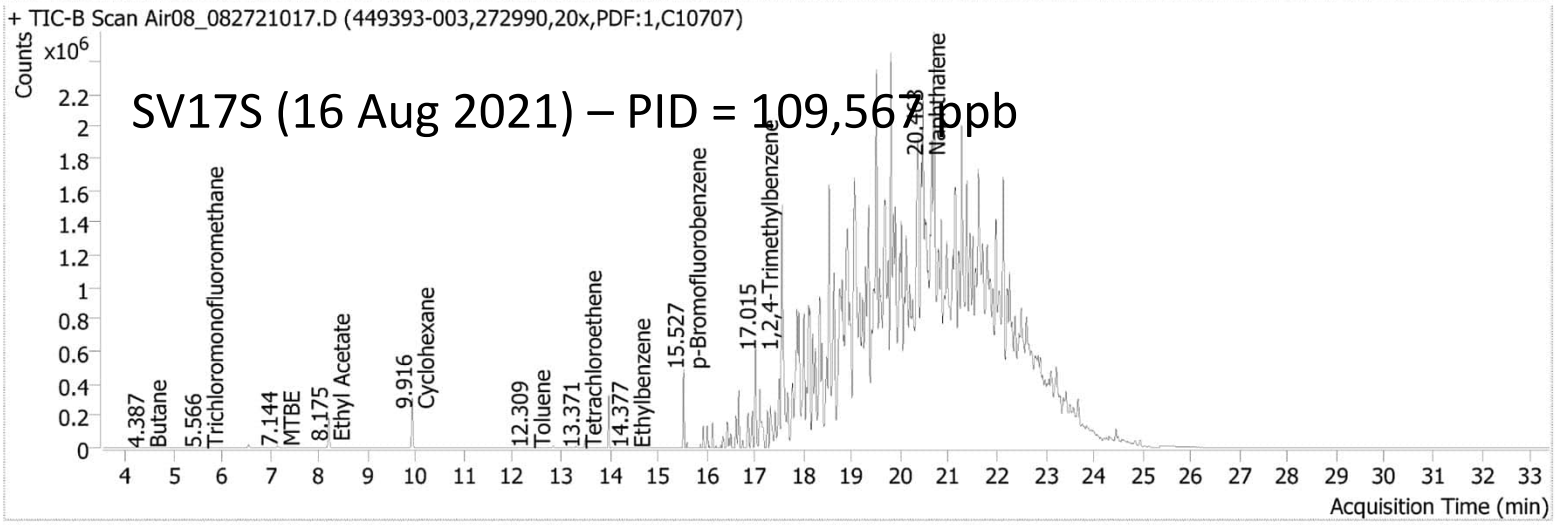

Signal: Air03_070212115.D\FID1A.CH
Response
SVMP-20D (15 July 2021)
PID = 0.96 ppm
TPH by TO-3 = 0.086 ppm
TPH Gasoli
Time

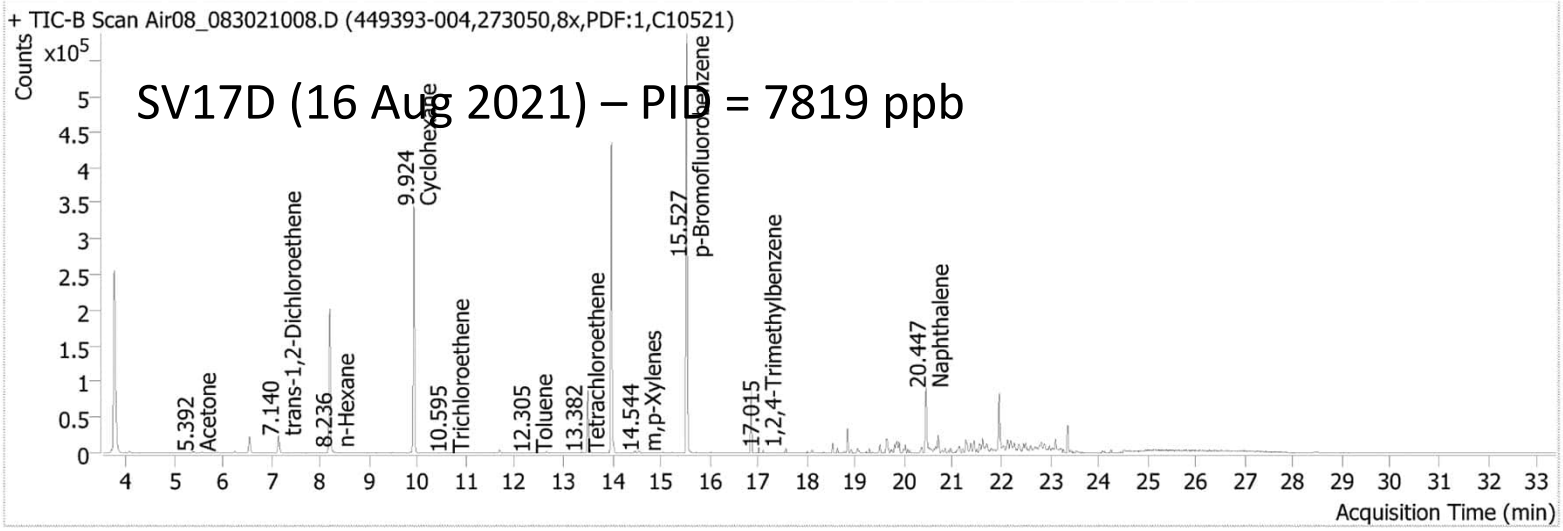
August 2021
Soil Vapor Samples

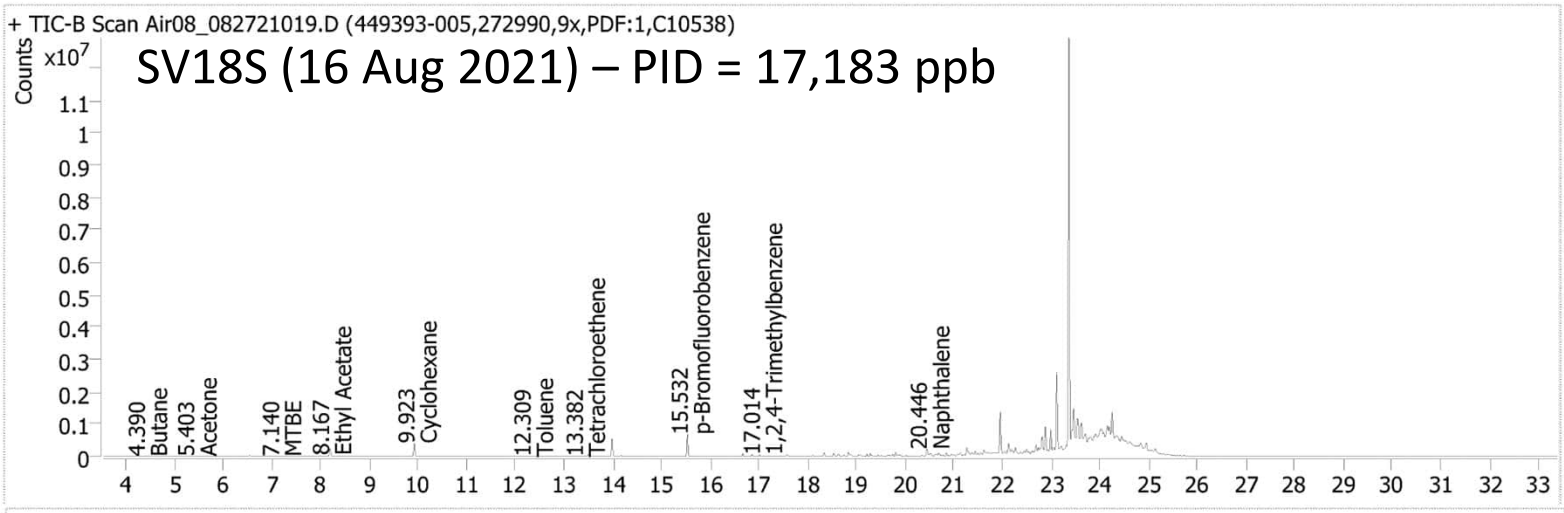
Mass Spec Chromatograms

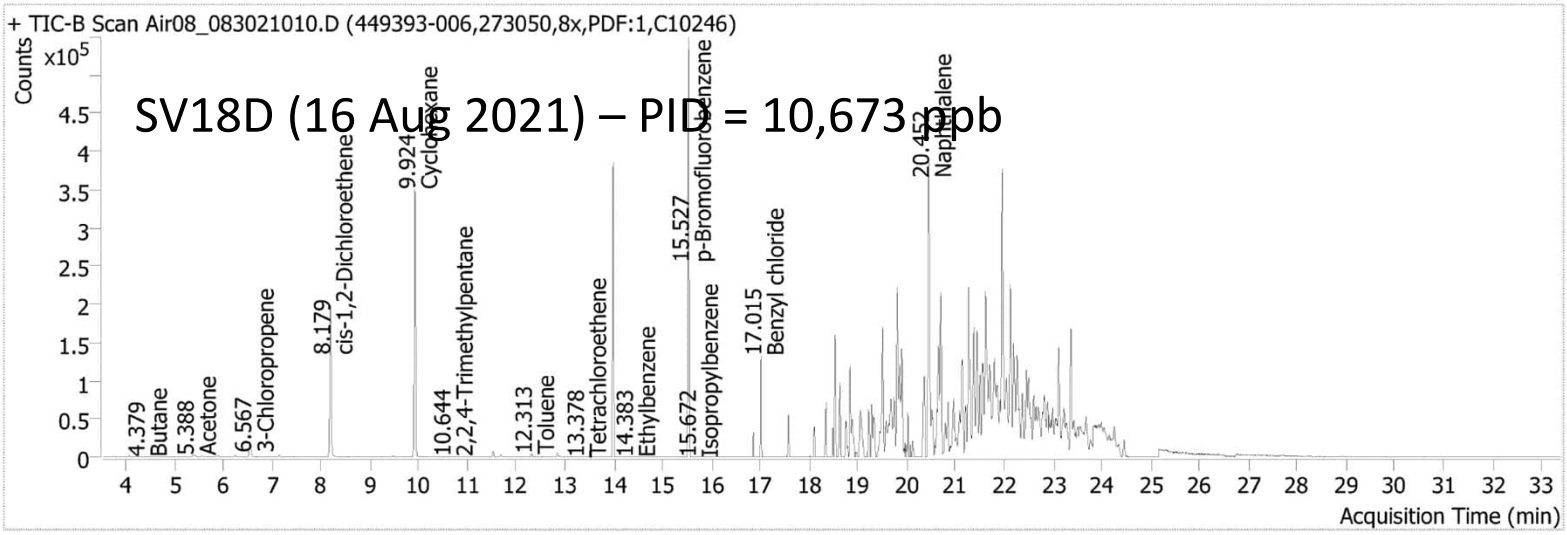

+ TIC-B Scan Air08_082721014.D (449393-001,272990,2x,PDF:1,C10567)
SV15S (16 Aug 2021) – PID = 34 ppb
Counts
x10^5
5.543 Isopropanol (IPA)
6.575 Carbon Disulfide
7.140 trans-1,2-Dichloroethene
8.175 Ethyl Acetate
9.927 Cyclohexane
10.606 Trichloroethene
12.700 Dibromochloromethane
14.544 m,p-Xylenes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

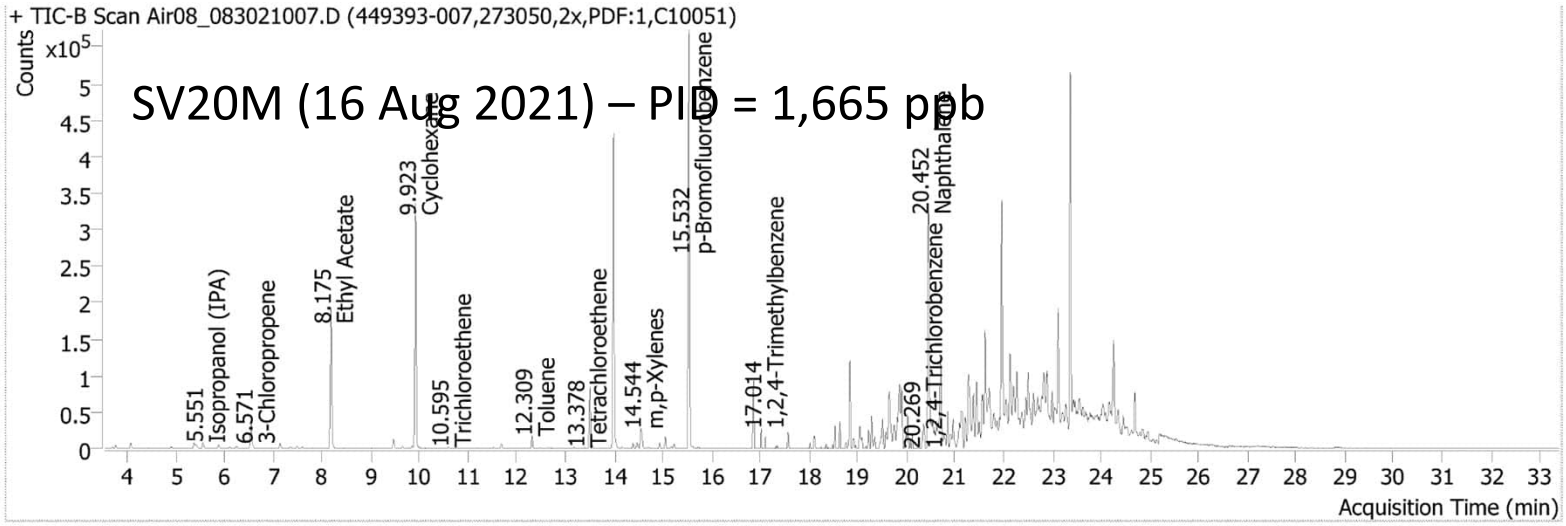

+ TIC-B Scan Air08_082721016.D (449393-002,272990,2x,PDF:1,C10603)
SV15D (16 Aug 2021) – PID = 31 ppb
Counts
x10^5
5.373 Acetone
7.140 trans-1,2-Dichloroethene
8.172 Ethyl Acetate
9.927 Cyclohexane
10.603 Trichloroethene
13.375 Tetrachloroethene
15.532 Isopropylbenzene
16.171 2-Chlorotoluene
20.447 Naphthalene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

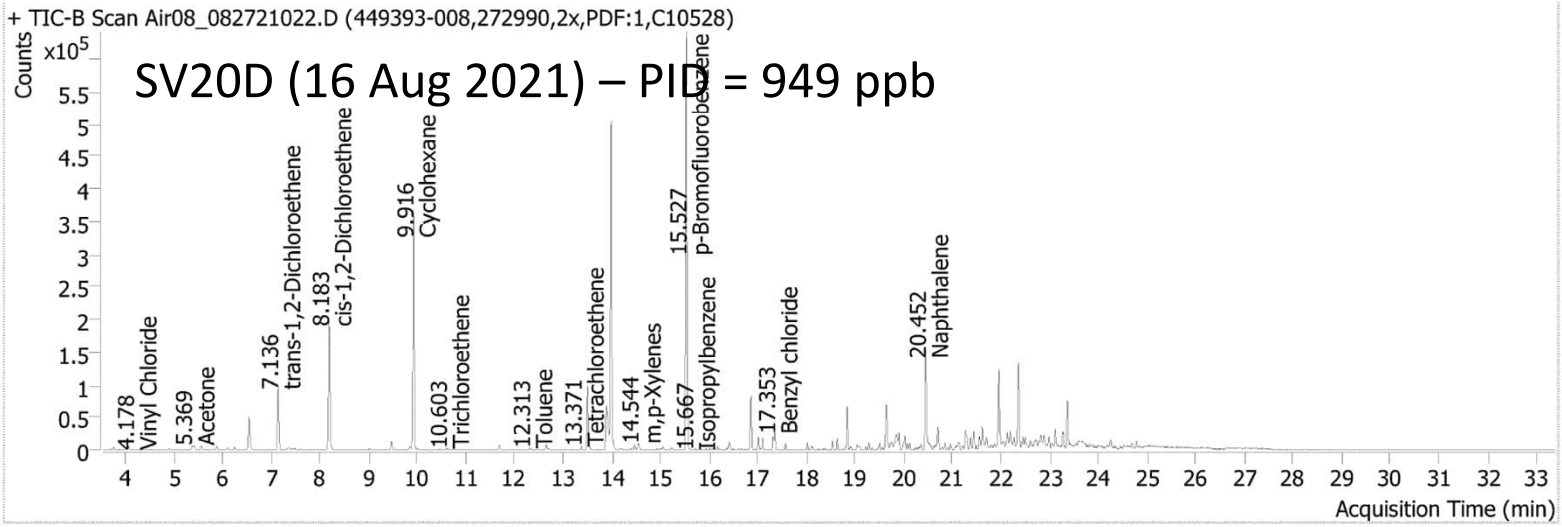

+ TIC-B Scan Air08_082721017.D (449393-003,272990,20x,PDF:1,C10707)
SV17S (16 Aug 2021) – PID = 109,567 ppb
Counts
x10^6
4.387 Butane
5.566 Trichloromonofluoromethane
7.144 MTBE
8.175 Ethyl Acetate
9.916 Cyclohexane
12.309 Toluene
13.371 Tetrachloroethene
14.377 Ethylbenzene
15.527 p-Bromofluorobenzene
17.015 1,2,4-Trimethylbenzene
20.453 Naphthalene
Acquisition Time (min)


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


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

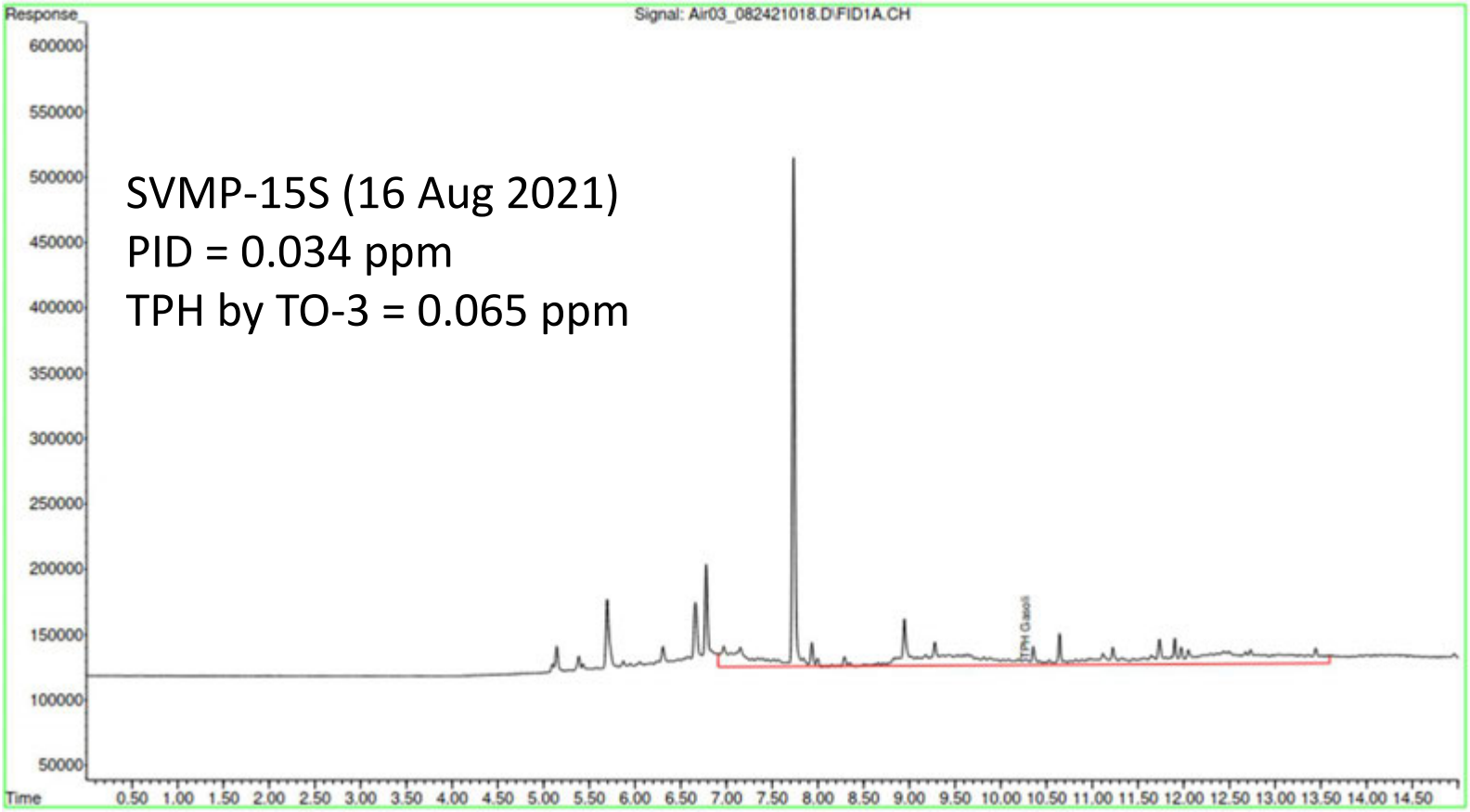

+ TIC-B Scan Air08_083021010.D (449393-006,273050,8x,PDF:1,C10246)
SV18D (16 Aug 2021) – PID = 10,673 ppb
Counts
x10^5
4.379 Butane
5.388 Acetone
6.567 3-Chloropropene
8.179 cis-1,2-Dichloroethene
9.924 Cyclohexane
10.644 2,2,4-Trimethylpentane
12.313 Toluene
13.378 Tetrachloroethene
14.383 Ethylbenzene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

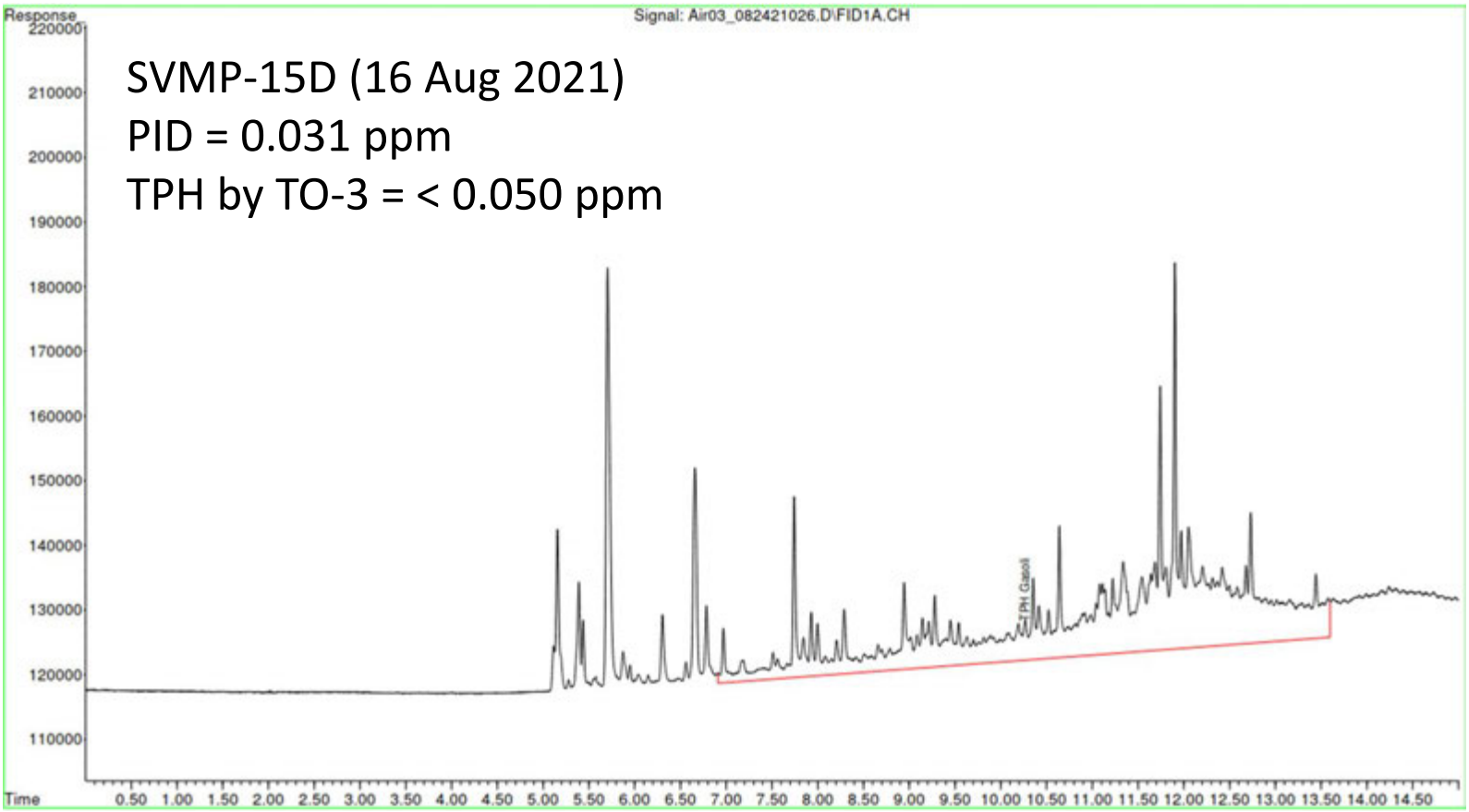

+ TIC-B Scan Air08_083021007.D (449393-007,273050,2x,PDF:1,C10051)
SV20M (16 Aug 2021) – PID = 1,665 ppb
Counts
x10^5
5.551 Isopropanol (IPA)
6.571 3-Chloropropene
8.175 Ethyl Acetate
9.923 Cyclohexane
10.595 Trichloroethene
12.309 Toluene
13.378 Tetrachloroethene
14.544 m,p-Xylenes
15.532 p-Bromofluorobenzene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

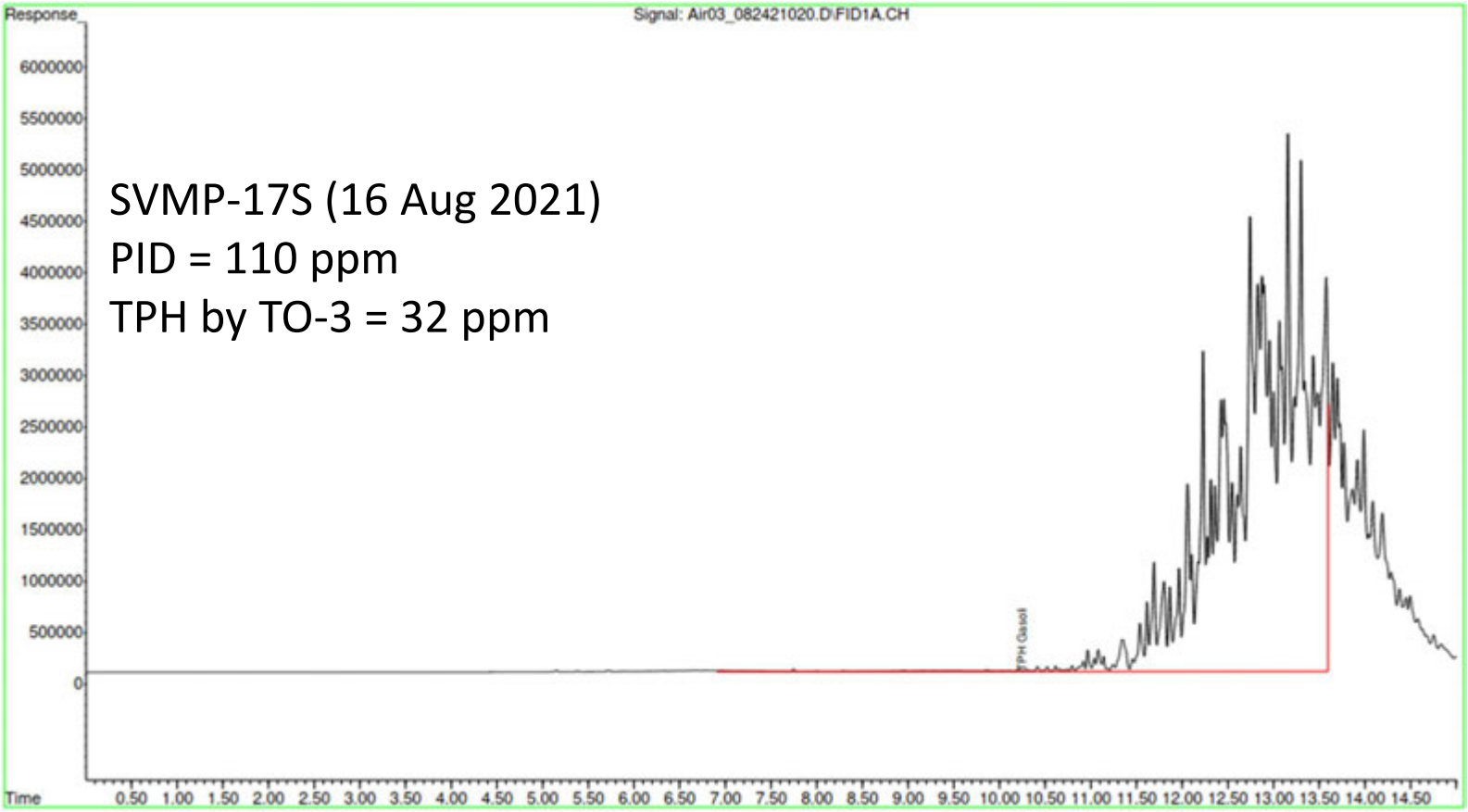

+ TIC-B Scan Air08_082721022.D (449393-008,272990,2x,PDF:1,C10528)
SV20D (16 Aug 2021) – PID = 949 ppb
Counts
x10^5
4.178 Vinyl Chloride
5.369 Acetone
7.136 trans-1,2-Dichloroethene
8.183 cis-1,2-Dichloroethene
9.916 Cyclohexane
10.603 Trichloroethene
12.313 Toluene
13.371 Tetrachloroethene
14.544 m,p-Xylenes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

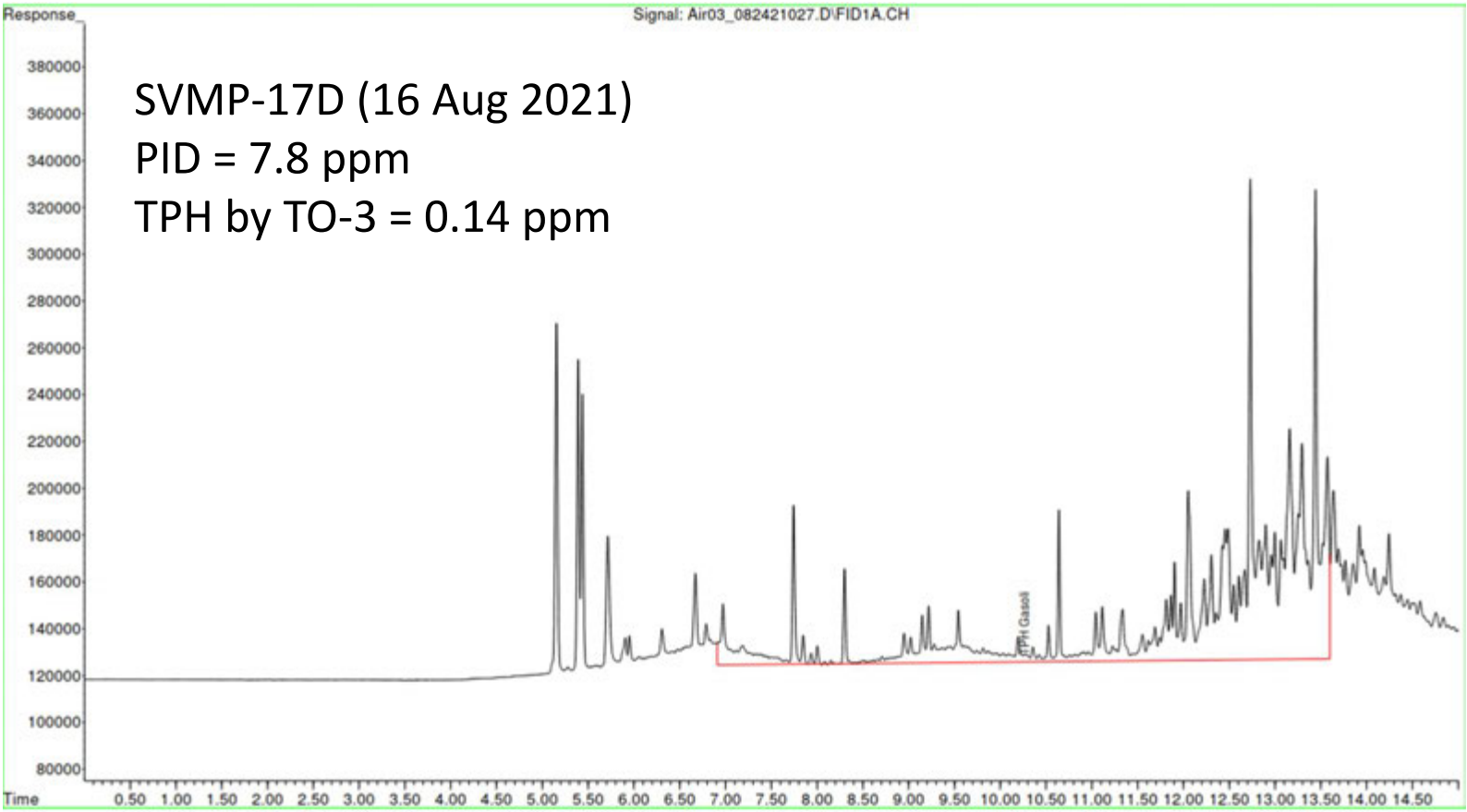
August 2021
Soil Vapor Samples

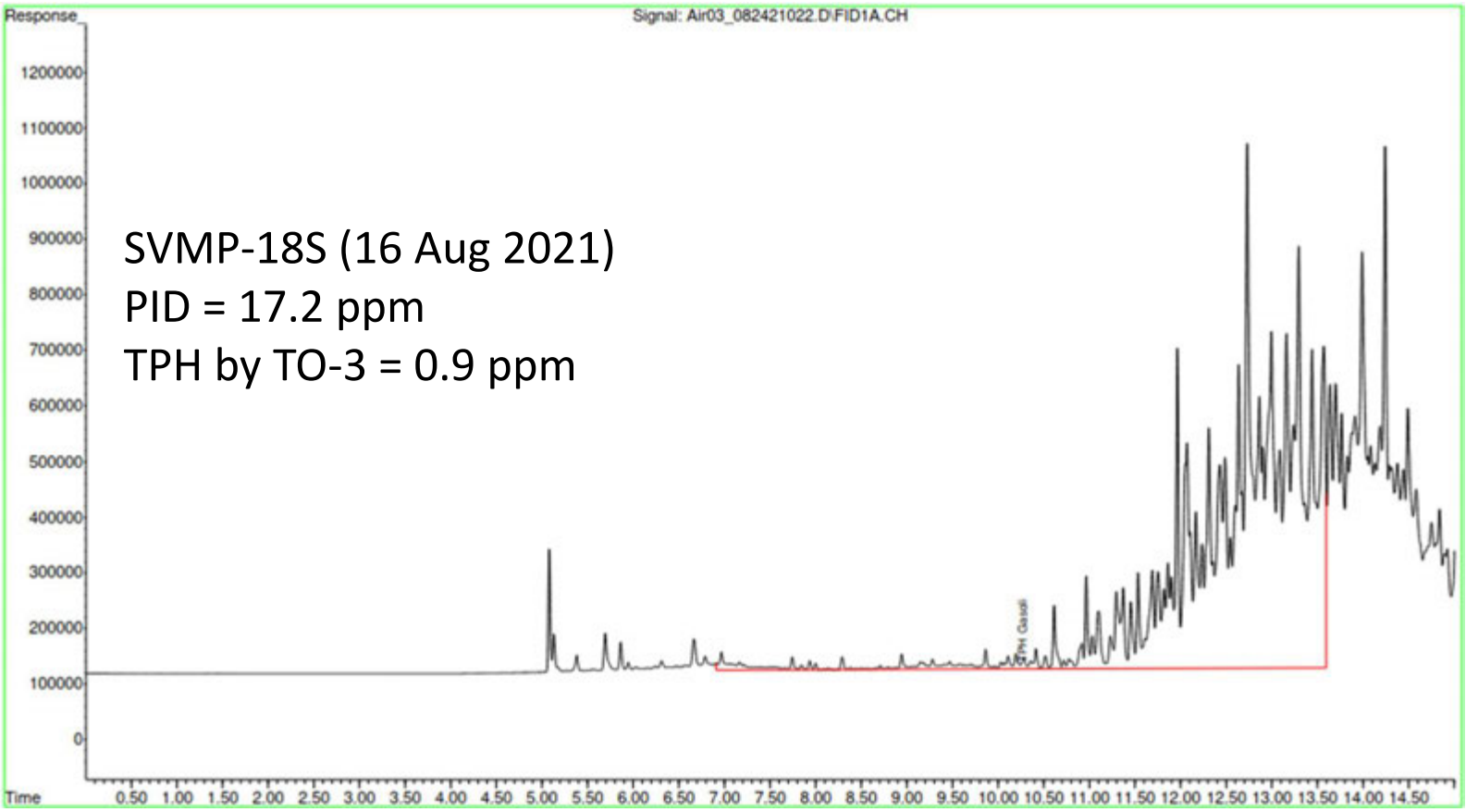
FID Chromatograms

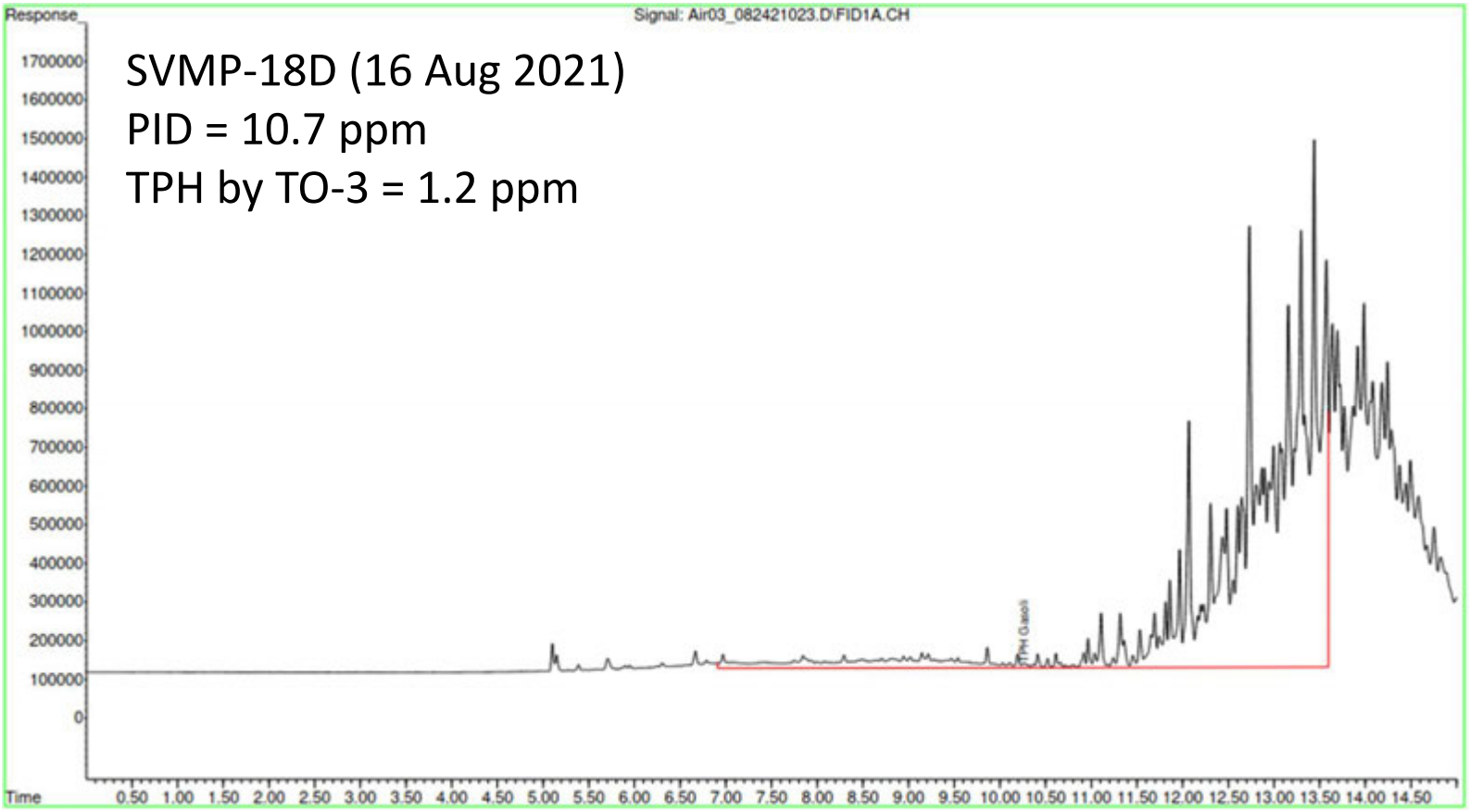

Signal: Air03_082421018.D\FID1A.CH
Response
Time
TPH Gasoil
SVMP-15S (16 Aug 2021)
PID = 0.034 ppm
TPH by TO-3 = 0.065 ppm

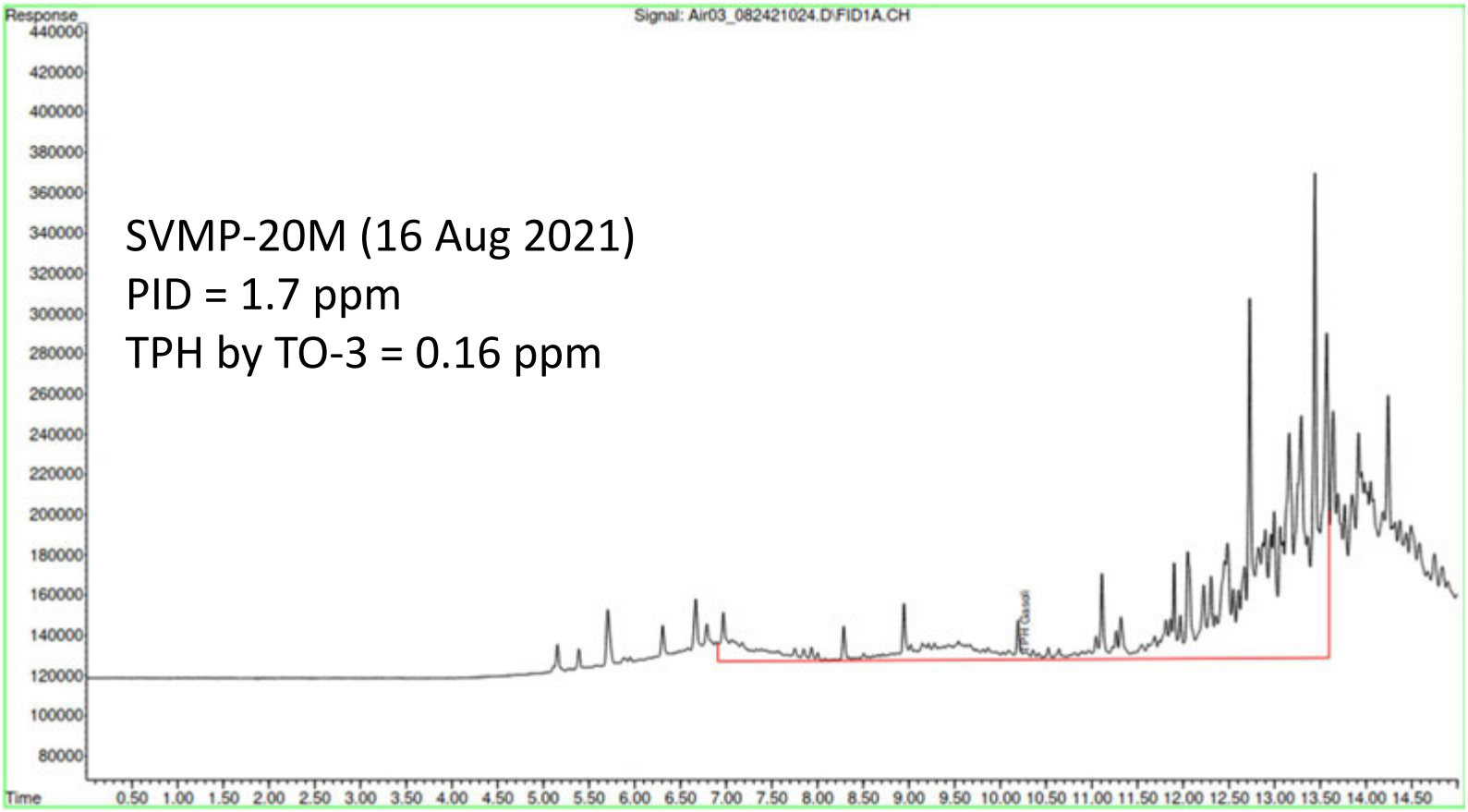

Signal: Air03_082421026.D\FID1A.CH
Response
Time
TPH Gasoil
SVMP-15D (16 Aug 2021)
PID = 0.031 ppm
TPH by TO-3 = < 0.050 ppm

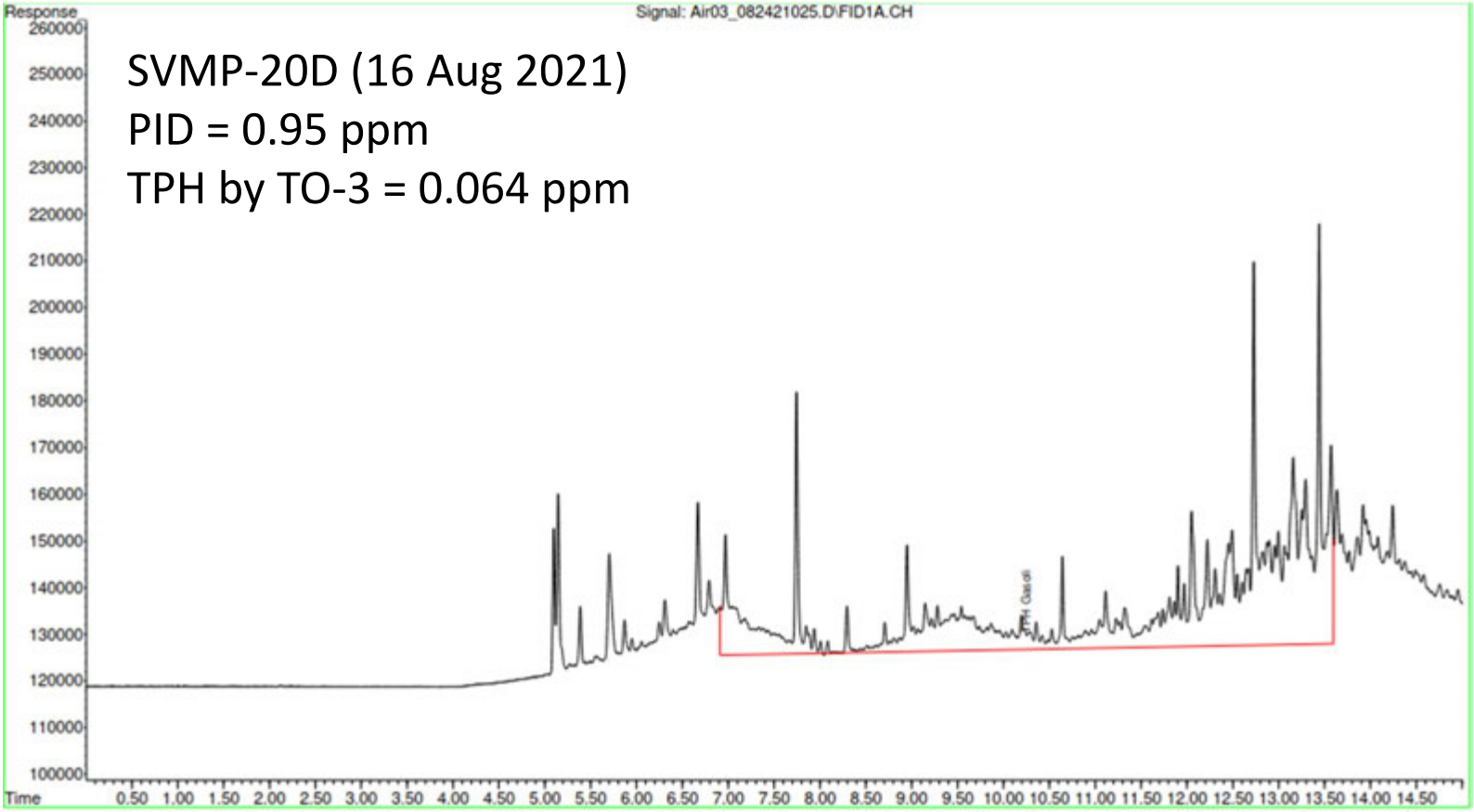

Signal: Air03_082421020.D\FID1A.CH
Response
Time
TPH Gasoil
SVMP-17S (16 Aug 2021)
PID = 110 ppm
TPH by TO-3 = 32 ppm


Signal: Air03_082421027.D\FID1A.CH
Response
Time
TPH Gasoil
SVMP-17D (16 Aug 2021)
PID = 7.8 ppm
TPH by TO-3 = 0.14 ppm


Signal: Air03_082421022.D\FID1A.CH
Response
Time
SVMP-18S (16 Aug 2021)
PID = 17.2 ppm
TPH by TO-3 = 0.9 ppm

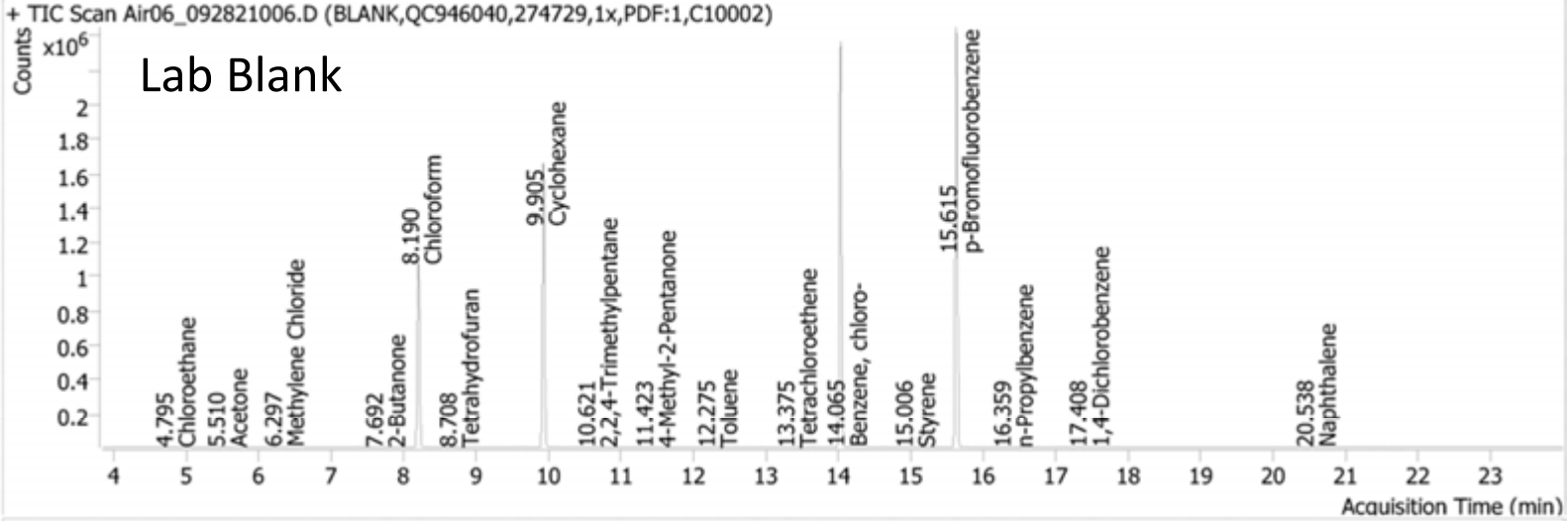

Signal: Air03_082421023.D\FID1A.CH
Response
Time
SVMP-18D (16 Aug 2021)
PID = 10.7 ppm
TPH by TO-3 = 1.2 ppm

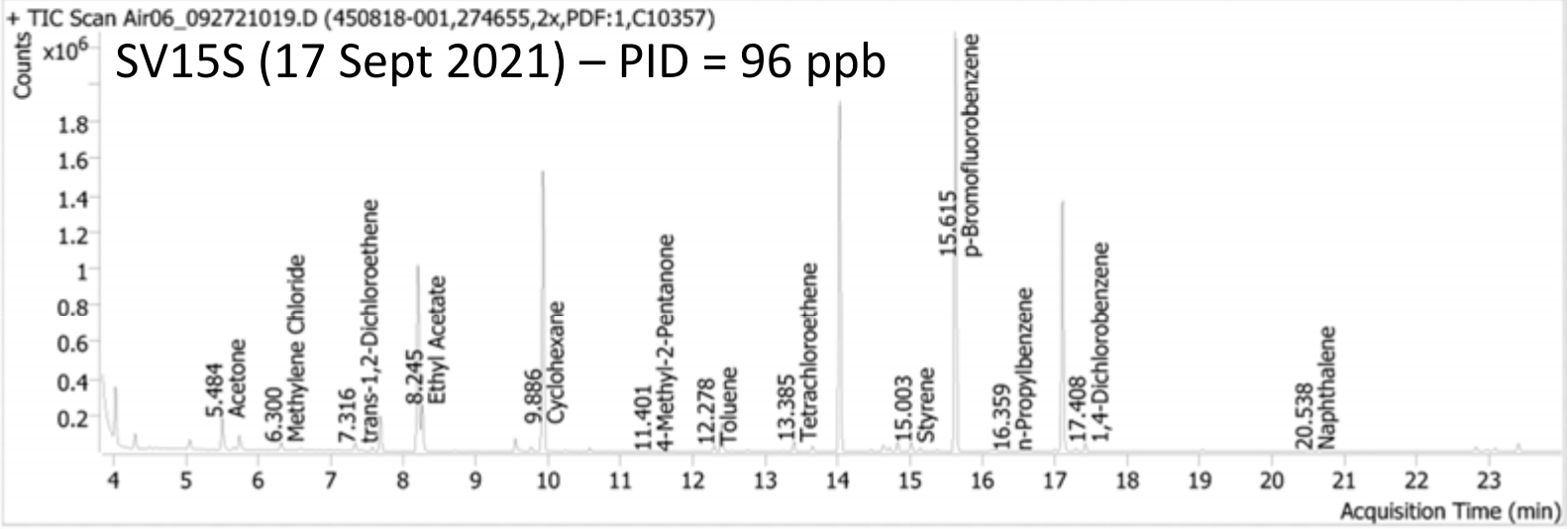

Signal: Air03_082421024.D\FID1A.CH
Response
Time
SVMP-20M (16 Aug 2021)
PID = 1.7 ppm
TPH by TO-3 = 0.16 ppm

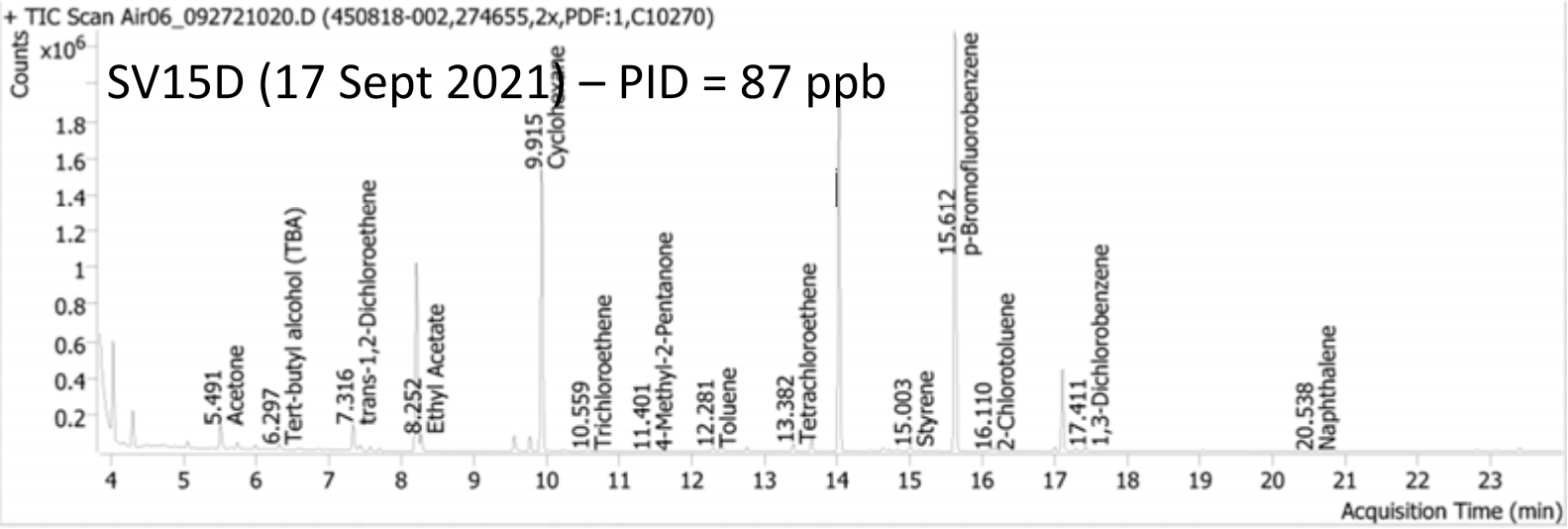

Signal: Air03_082421025.D\FID1A.CH
Response
Time
SVMP-20D (16 Aug 2021)
PID = 0.95 ppm
TPH by TO-3 = 0.064 ppm

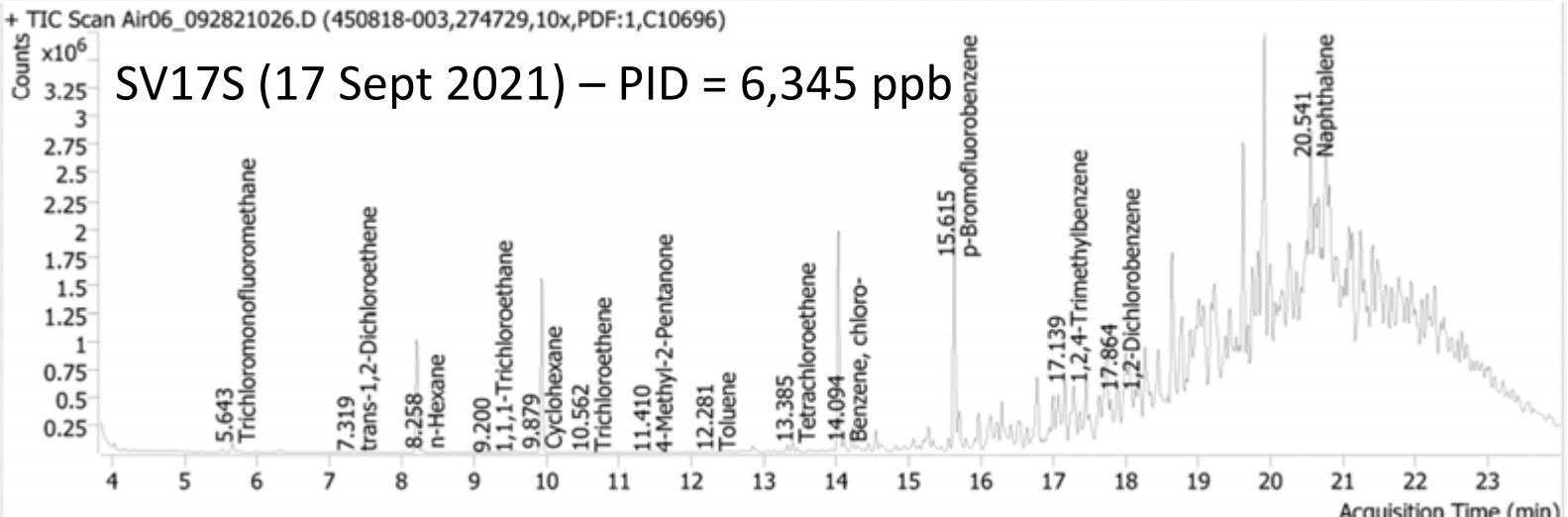
September 2021
Soil Vapor Samples

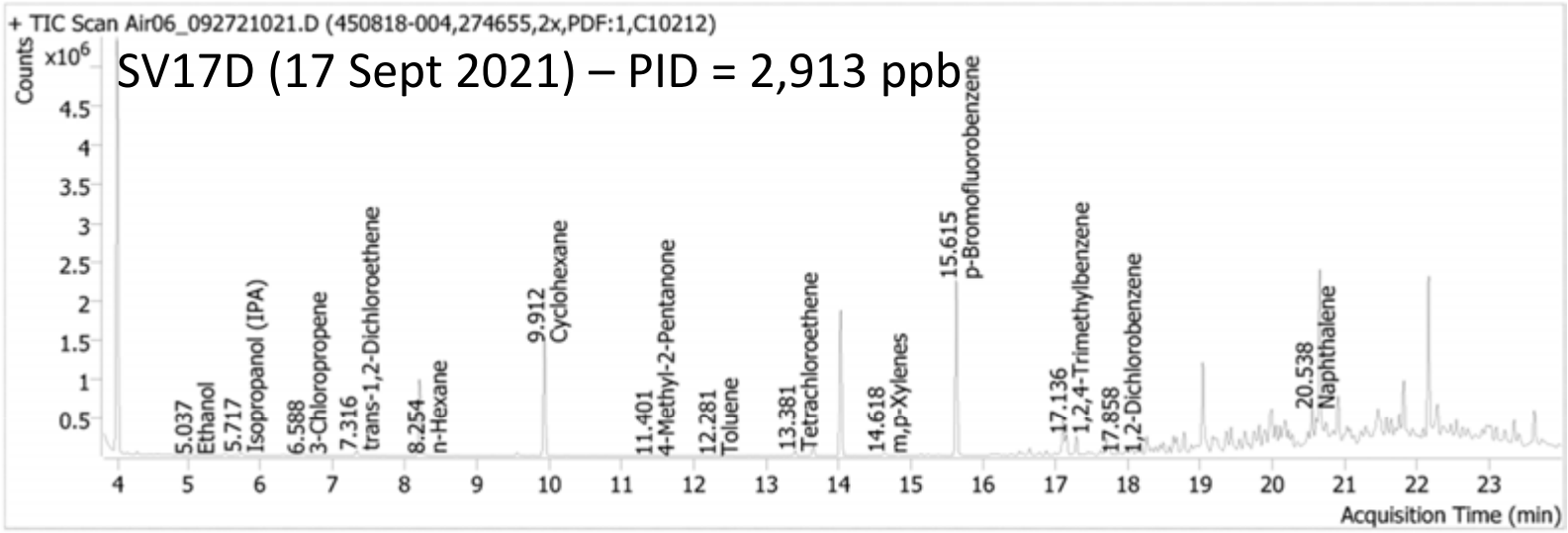
Mass Spec Chromatograms

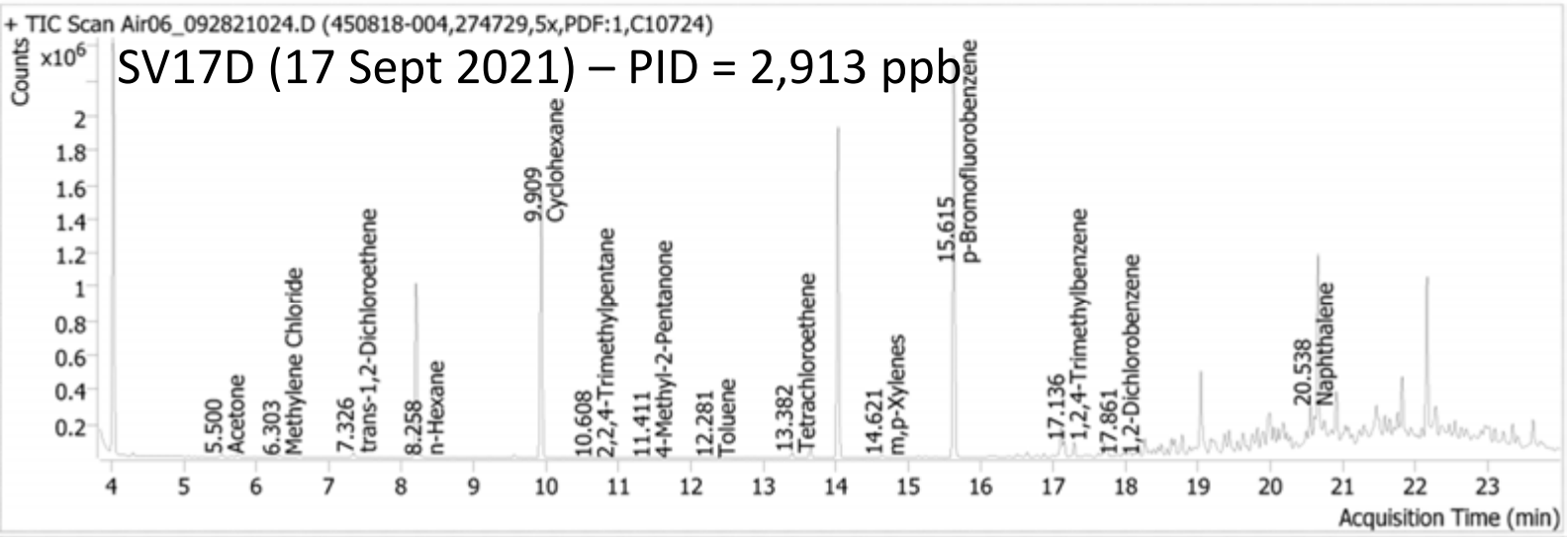

+ TIC Scan Air06_092821006.D (BLANK,QC946040,274729,1x,PDF:1,C10002)
Lab Blank
Counts
x10^6
4.795 Chloroethane
5.510 Acetone
6.297 Methylene Chloride
7.692 2-Butanone
8.190 Chloroform
8.708 Tetrahydrofuran
9.905 Cyclohexane
10.621 2,2,4-Trimethylpentane
11.423 4-Methyl-2-Pentanone
12.275 Toluene
13.375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

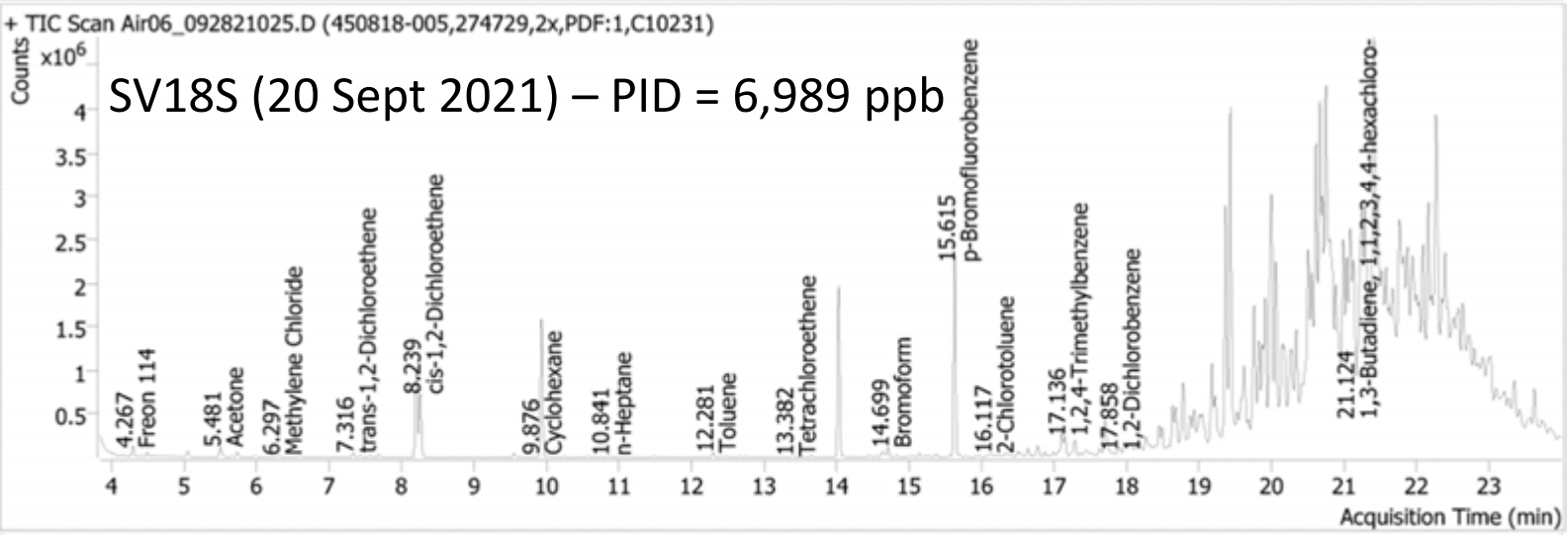

+ TIC Scan Air06_092721019.D (450818-001,274655,2x,PDF:1,C10357)
SV15S (17 Sept 2021) – PID = 96 ppb
Counts
x10^6
5.484 Acetone
6.300 Methylene Chloride
7.316 trans-1,2-Dichloroethene
8.245 Ethyl Acetate
9.886 Cyclohexane
11.401 4-Methyl-2-Pentanone
12.278 Toluene
13.385 Tetrachloroethene
15.003 Styrene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

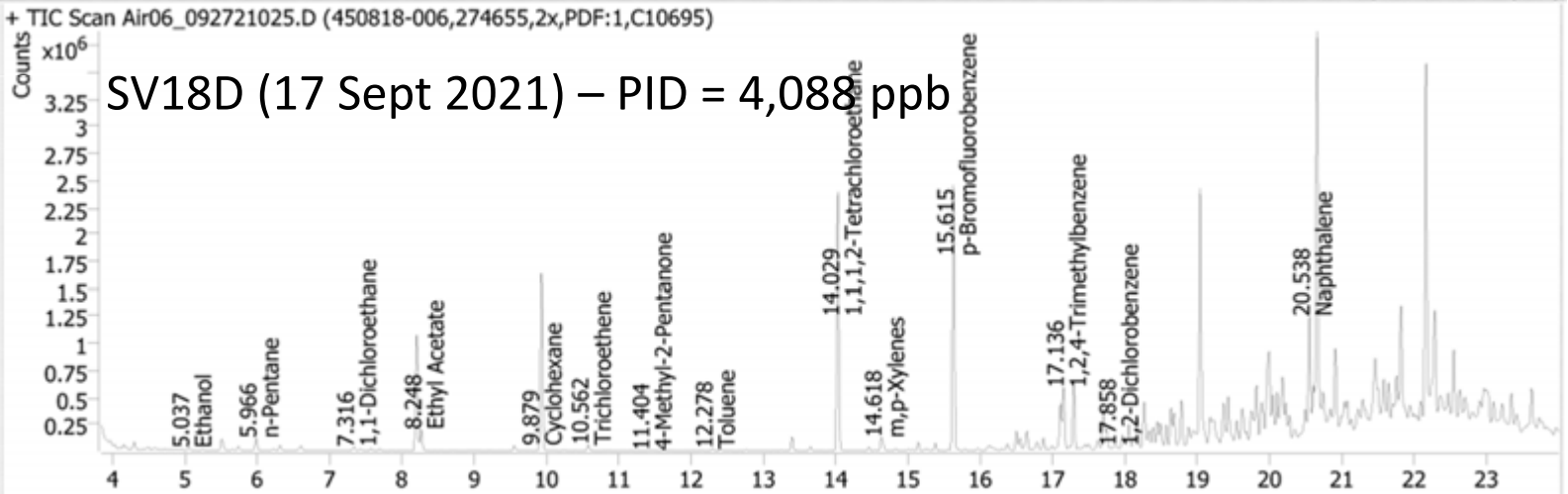

+ TIC Scan Air06_092721020.D (450818-002,274655,2x,PDF:1,C10270)
SV15D (17 Sept 2021) – PID = 87 ppb
Counts
x10^6
5.491 Acetone
6.297 Tert-butyl alcohol (TBA)
7.316 trans-1,2-Dichloroethene
8.252 Ethyl Acetate
9.915 Cyclohexane
10.559 Trichloroethene
11.401 4-Methyl-2-Pentanone
12.281 Toluene
13.382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

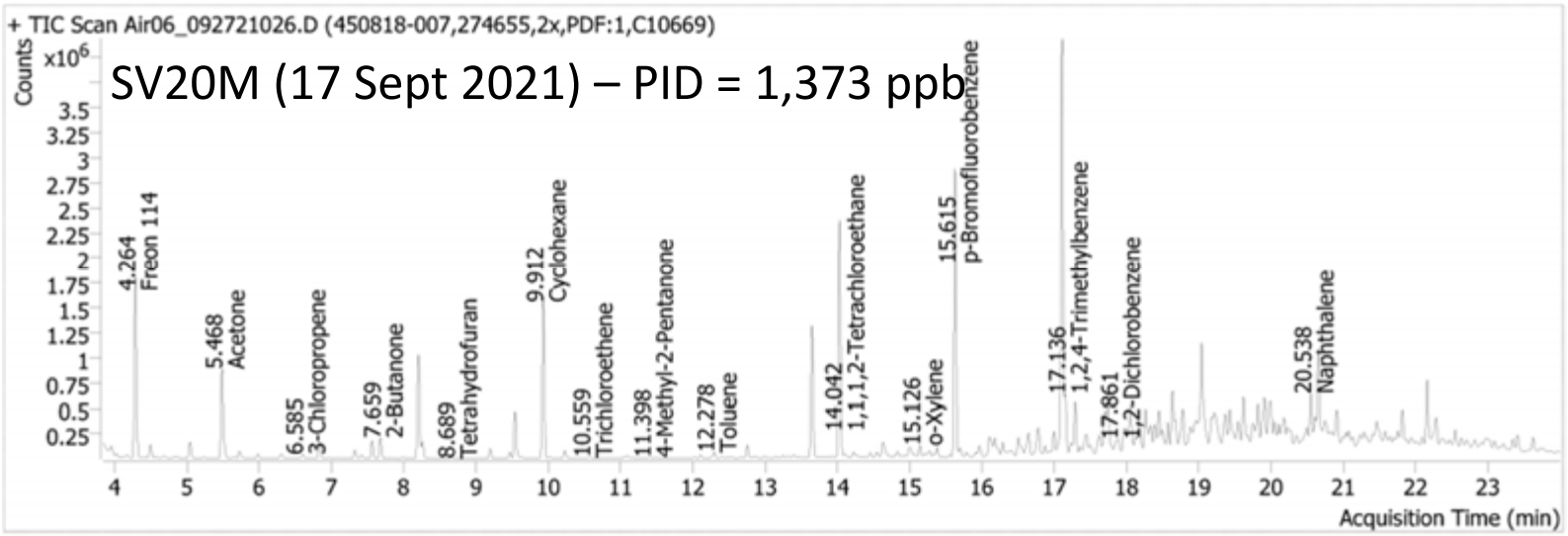

+ TIC Scan Air06_092821026.D (450818-003,274729,10x,PDF:1,C10696)
SV17S (17 Sept 2021) – PID = 6,345 ppb
Counts
x10^6
5.643 Trichloromonofluoromethane
7.319 trans-1,2-Dichloroethene
8.258 n-Hexane
9.200 1,1,1-Trichloroethane
9.879 Cyclohexane
10.562 Trichloroethene
11.410 4-Methyl-2-Pentanone
12.281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

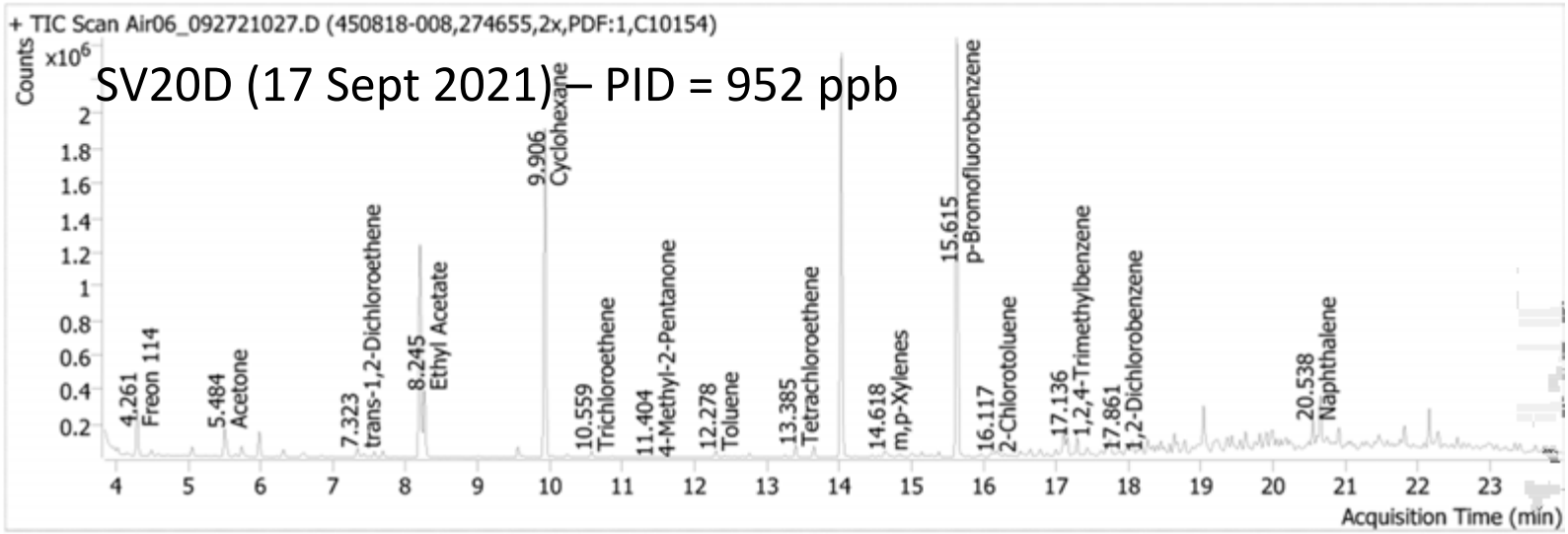

+ TIC Scan Air06_092721021.D (450818-004,274655,2x,PDF:1,C10212)
SV17D (17 Sept 2021) – PID = 2,913 ppb
Counts
x10^6
5.037 Ethanol
5.717 Isopropanol (IPA)
6.588 3-Chloropropene
7.316 trans-1,2-Dichloroethene
8.254 n-Hexane
9.912 Cyclohexane
11.401 4-Methyl-2-Pentanone
12.281 Toluene
13.381 Tetrachloroethene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


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


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

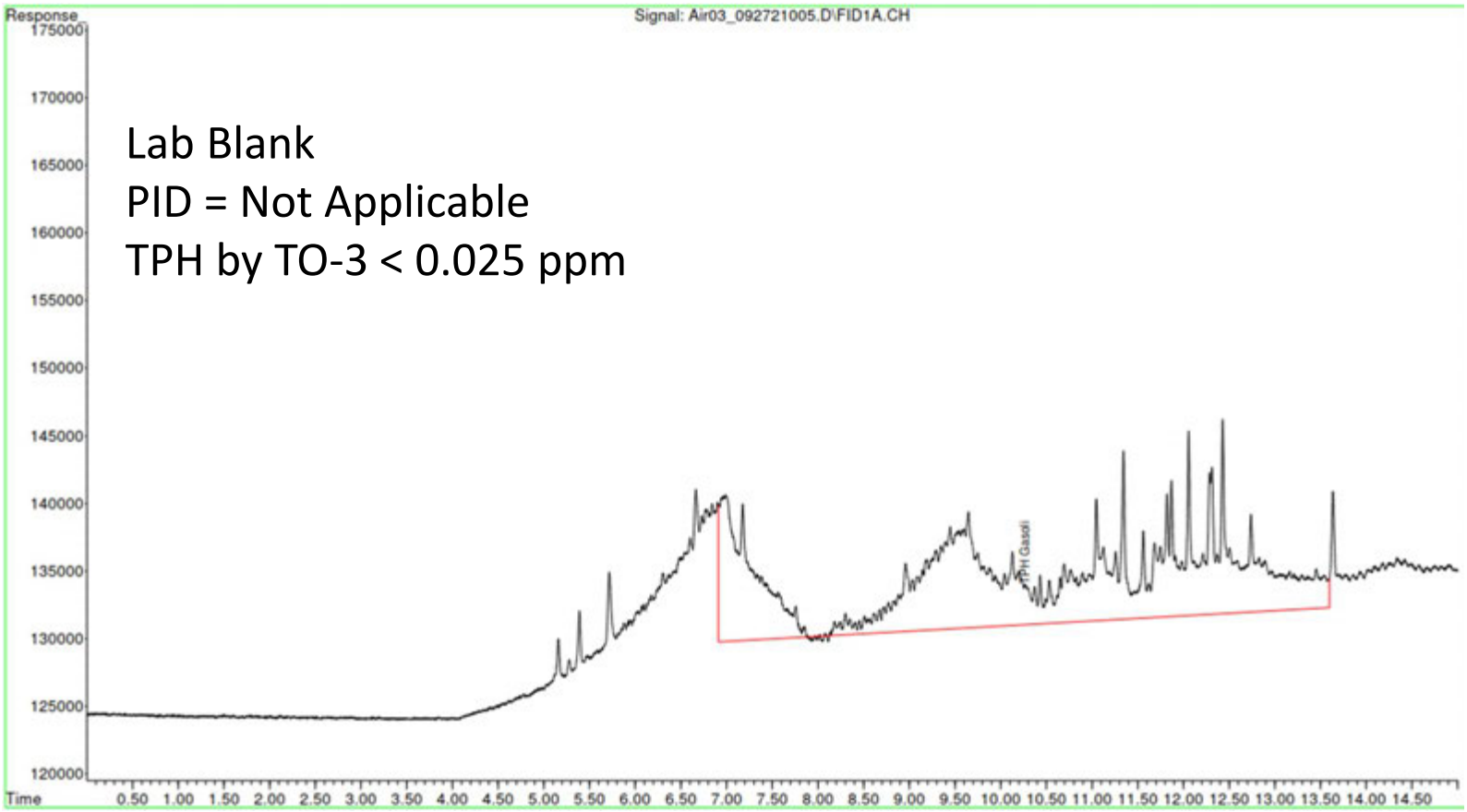

+ TIC Scan Air06_092721025.D (450818-006,274655,2x,PDF:1,C10695)
SV18D (17 Sept 2021) – PID = 4,088 ppb
Counts
x10^6
5.037 Ethanol
5.966 n-Pentane
7.316 1,1-Dichloroethane
8.248 Ethyl Acetate
9.879 Cyclohexane
10.562 Trichloroethene
11.404 4-Methyl-2-Pentanone
12.278 Toluene
14.029 1,1,1,2-Tetrachloroethane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


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

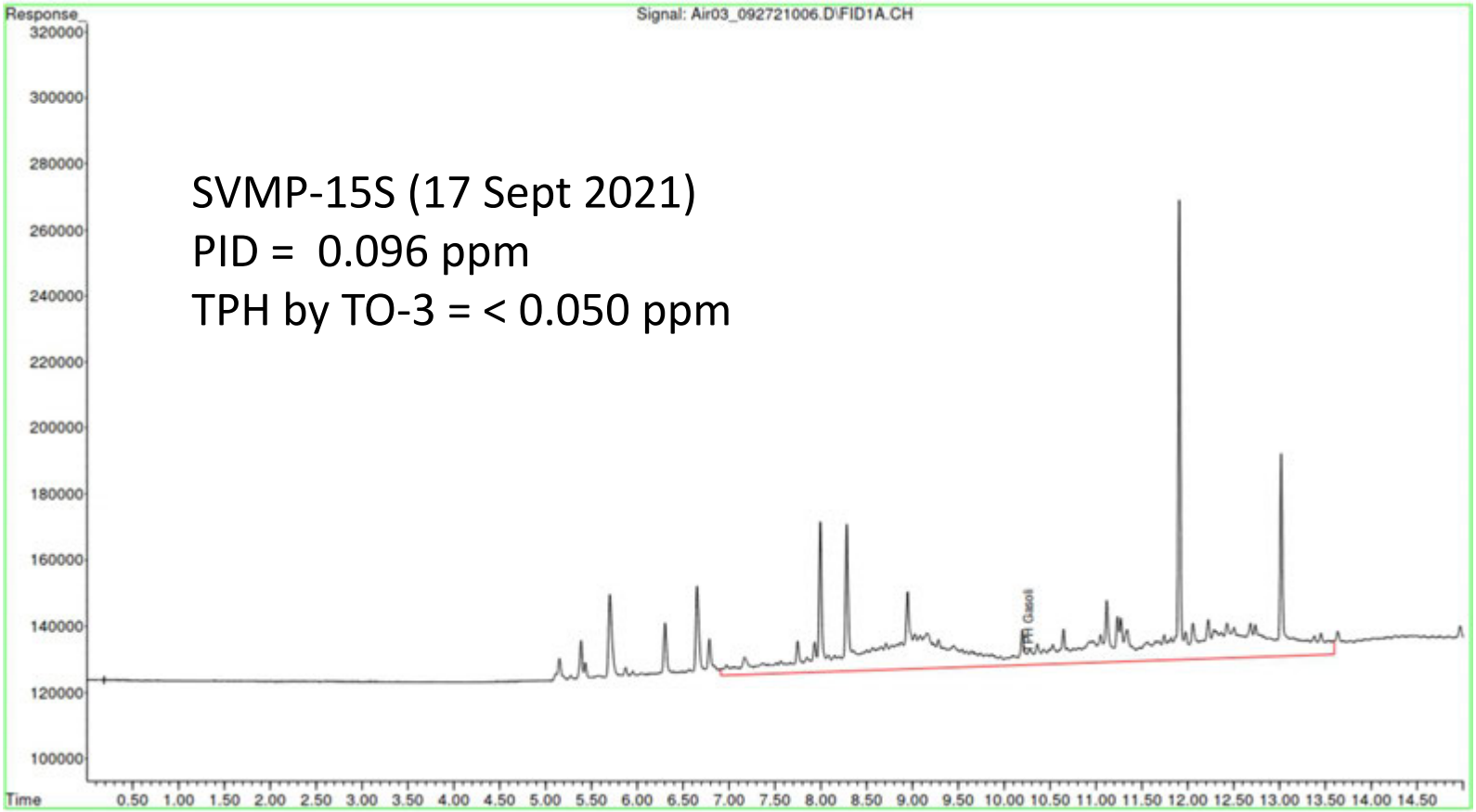

+ TIC Scan Air06_092721027.D (450818-008,274655,2x,PDF:1,C10154)
SV20D (17 Sept 2021) – PID = 952 ppb
Counts
x10^6
4.261 Freon 114
5.484 Acetone
7.323 trans-1,2-Dichloroethene
8.245 Ethyl Acetate
9.906 Cyclohexane
10.559 Trichloroethene
11.404 4-Methyl-2-Pentanone
12.278 Toluene
13.385 Tetrachloroethene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

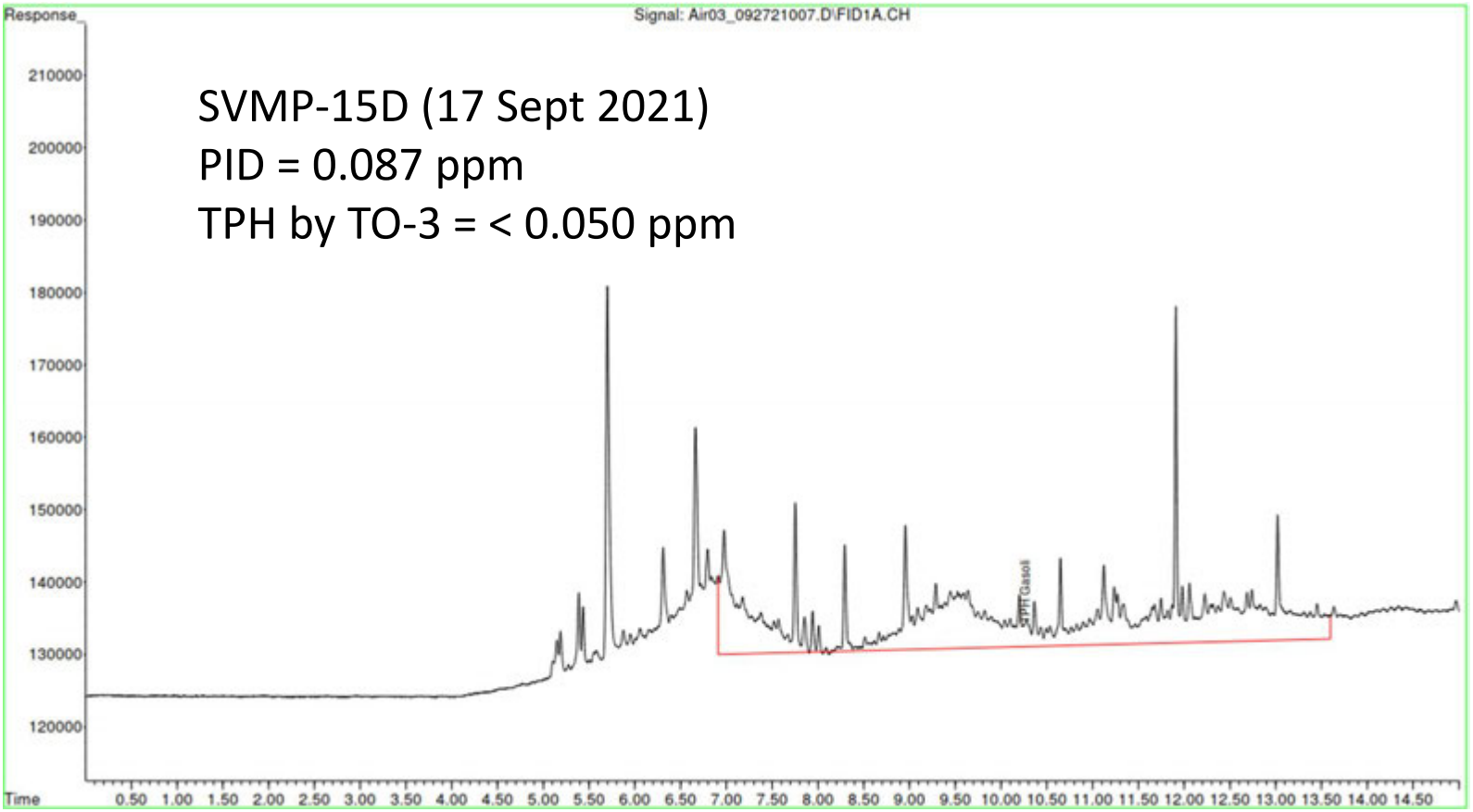
September 2021
Soil Vapor Samples

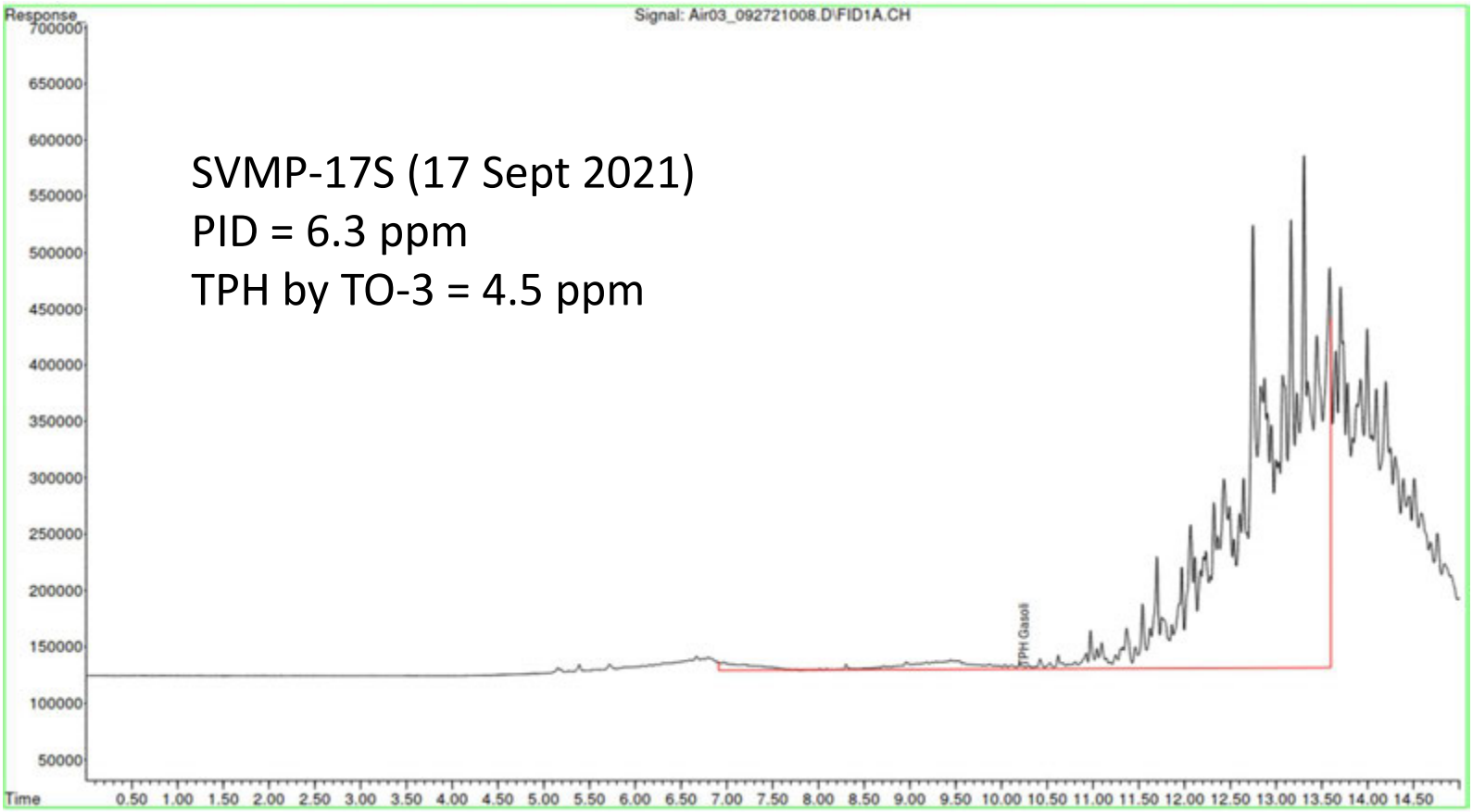
FID Chromatograms

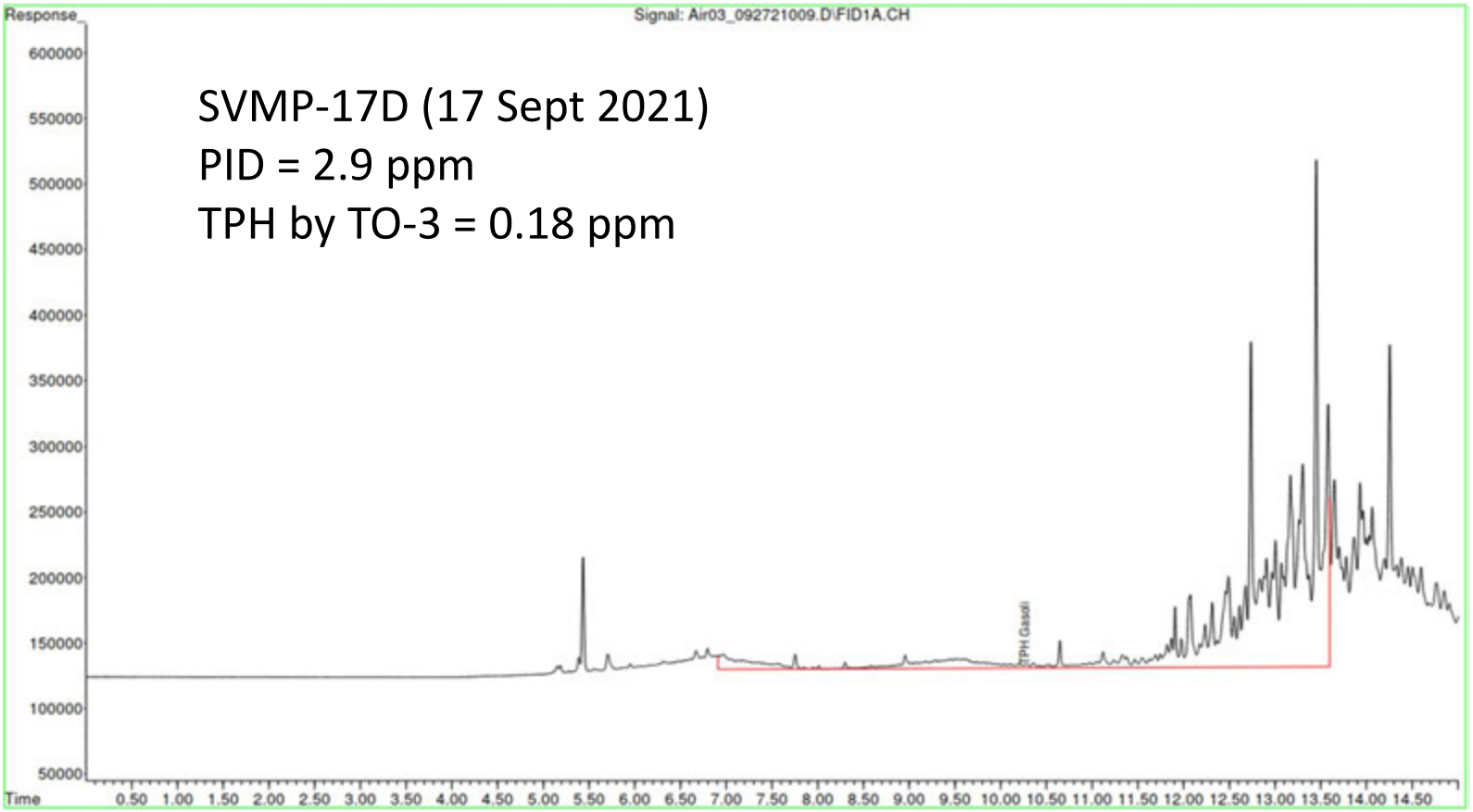


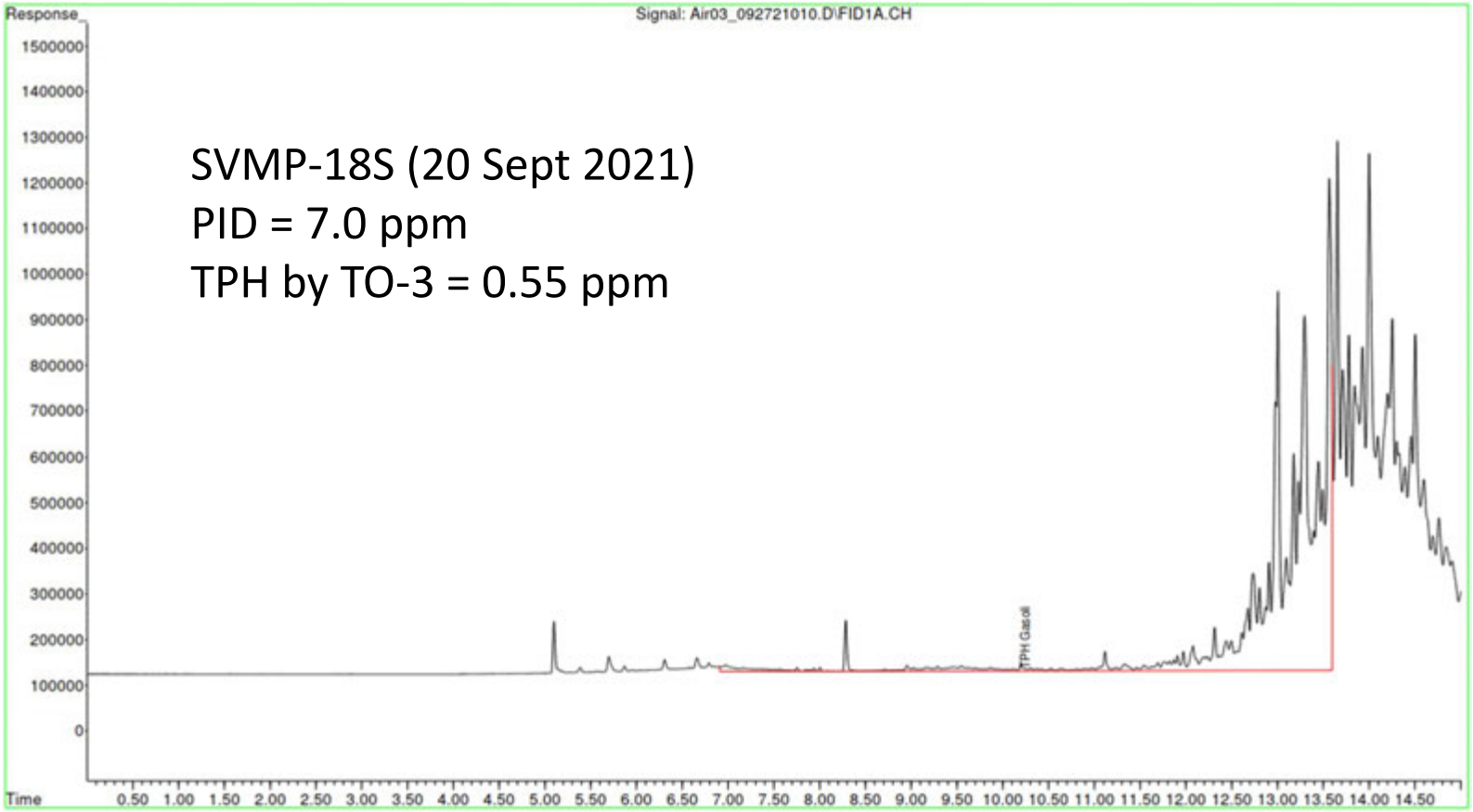
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm

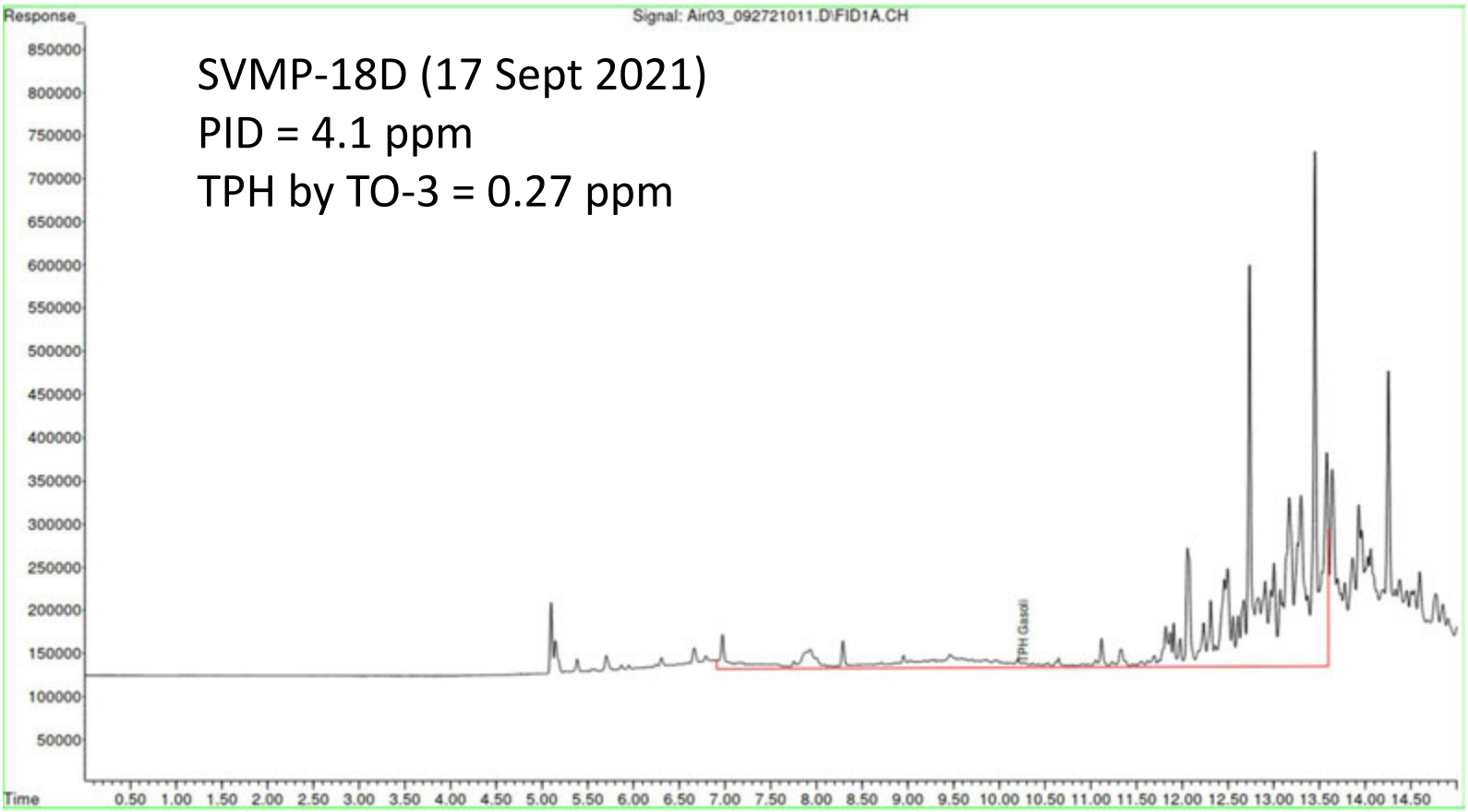

Signal: Air03_092721006.D\FID1A.CH
Response
Time
TPH Gasoil
SVMP-15S (17 Sept 2021)
PID = 0.096 ppm
TPH by TO-3 = < 0.050 ppm

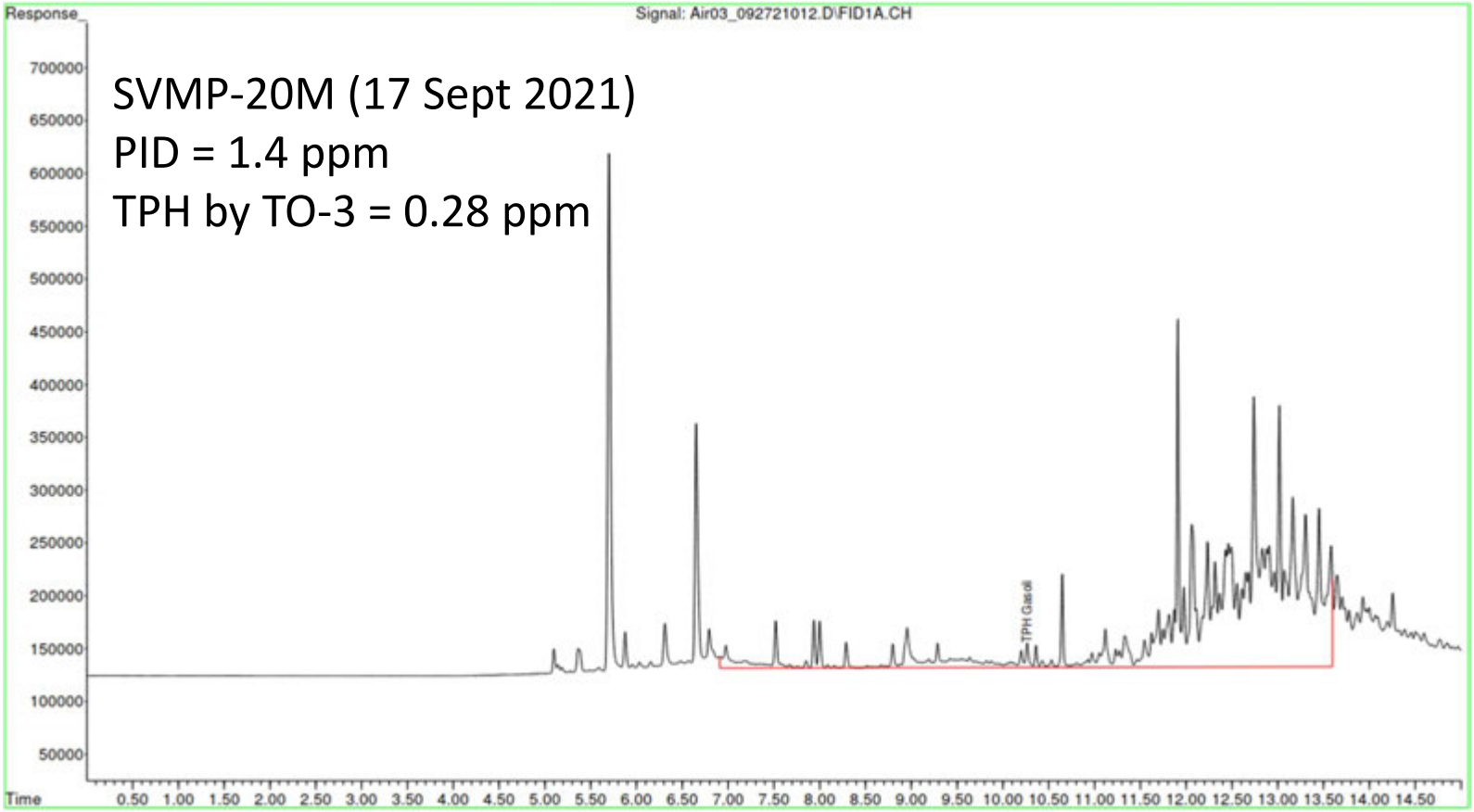

Signal: Air03_092721007.D\FID1A.CH
Response
Time
TPH Gasoil
SVMP-15D (17 Sept 2021)
PID = 0.087 ppm
TPH by TO-3 = < 0.050 ppm

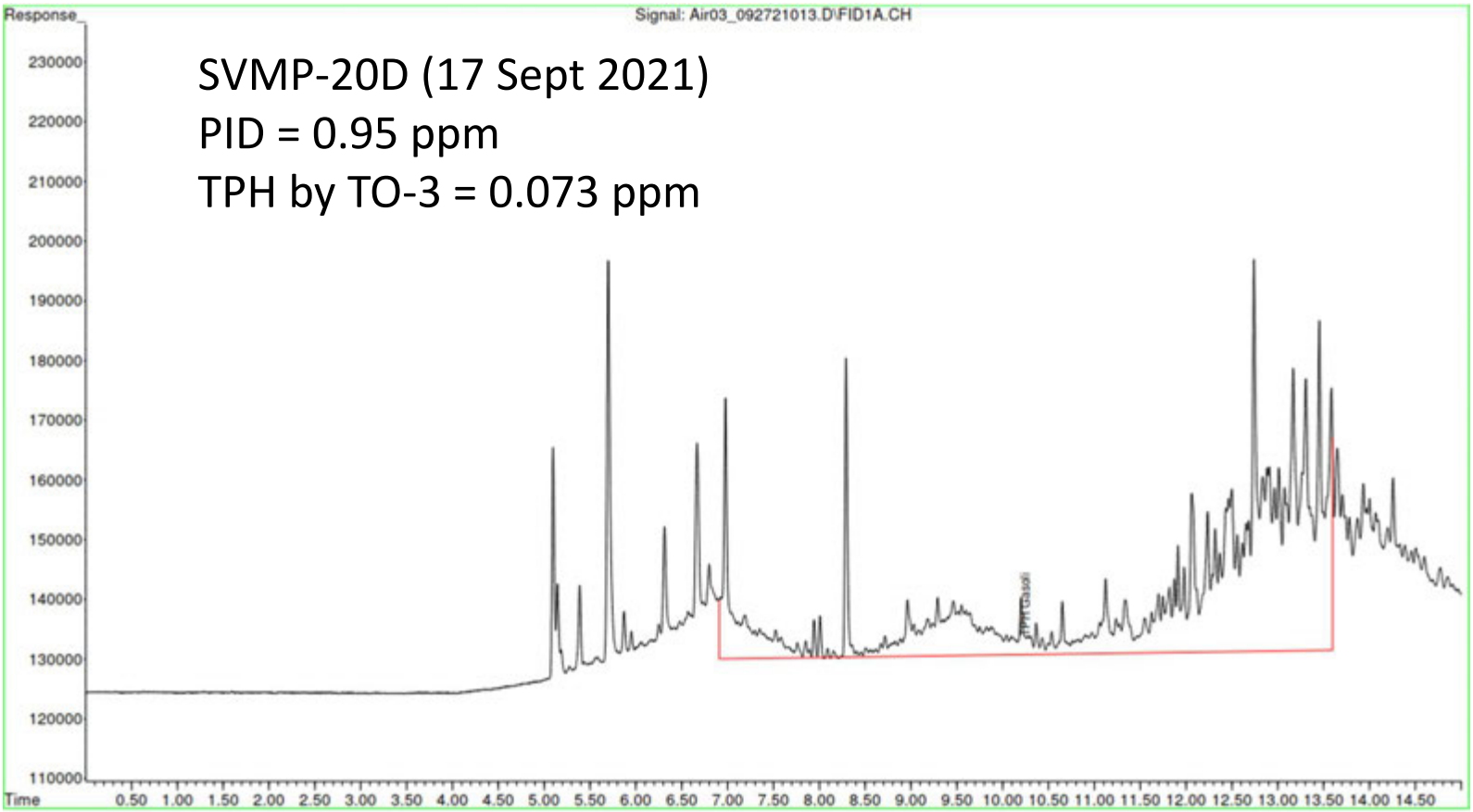

Signal: Air03_092721008.D\FID1A.CH
Response
Time
TPH Gasoli
SVMP-17S (17 Sept 2021)
PID = 6.3 ppm
TPH by TO-3 = 4.5 ppm


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


Signal: Air03_092721010.D\FID1A.CH
Response
Time
TPH Gasoil
SVMP-18S (20 Sept 2021)
PID = 7.0 ppm
TPH by TO-3 = 0.55 ppm


Signal: Air03_092721011.D\FID1A.CH
Response
Time
TPH Gasoil
SVMP-18D (17 Sept 2021)
PID = 4.1 ppm
TPH by TO-3 = 0.27 ppm


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


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

October 2021
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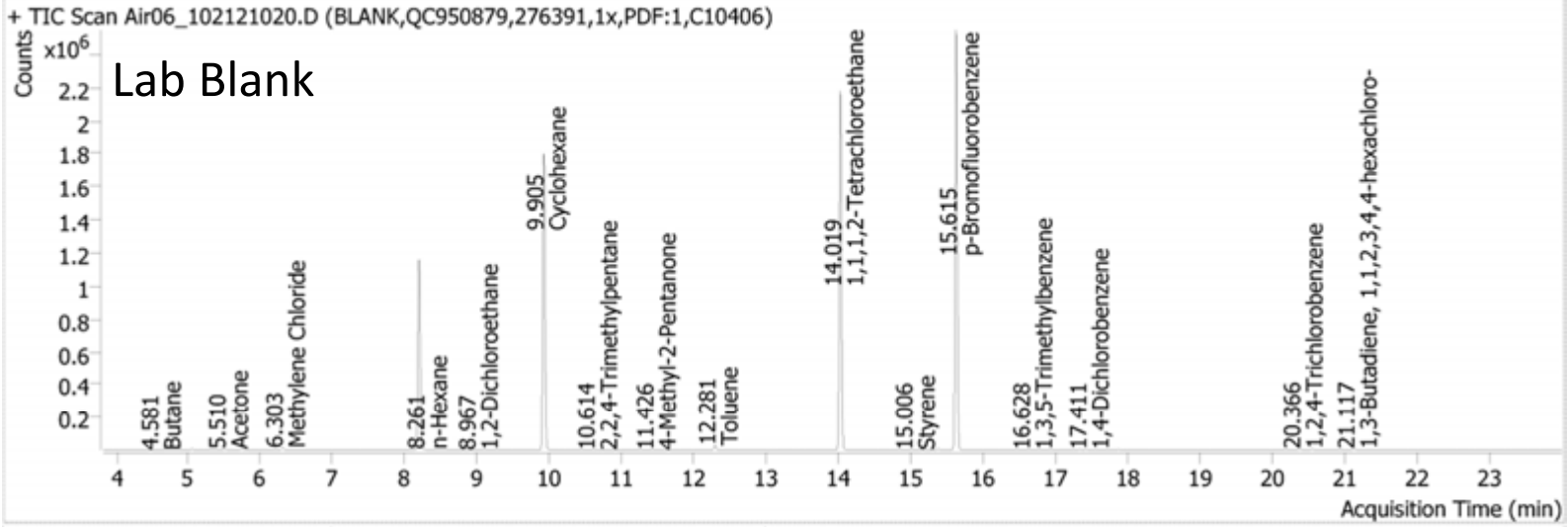
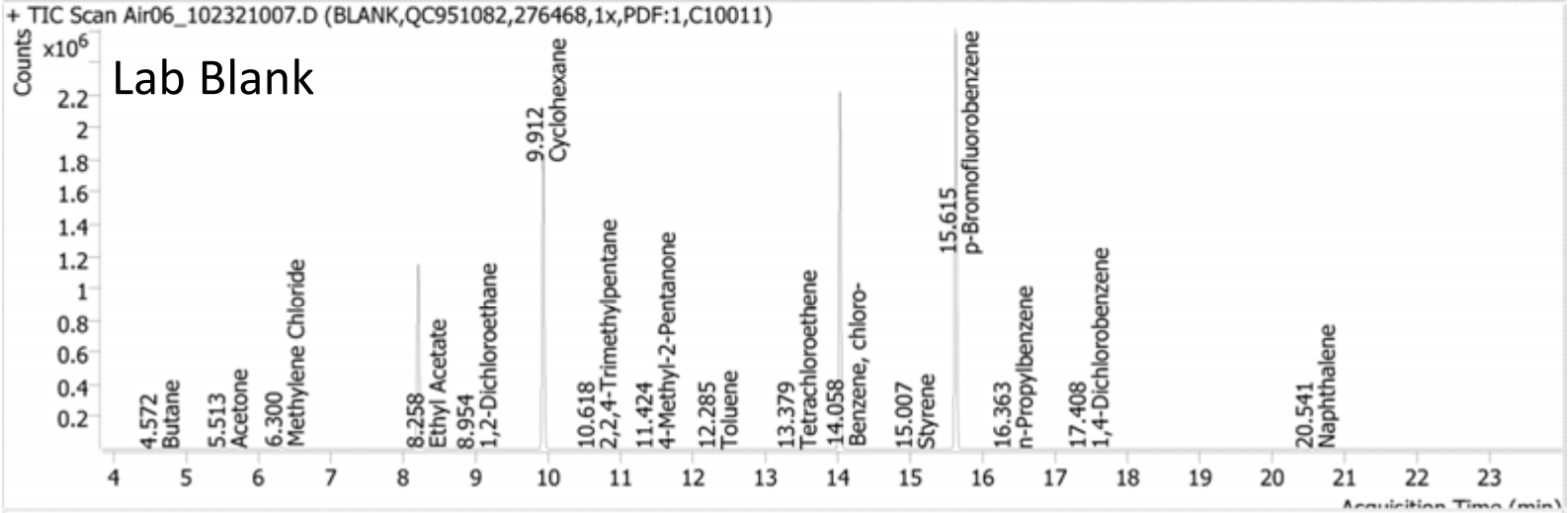
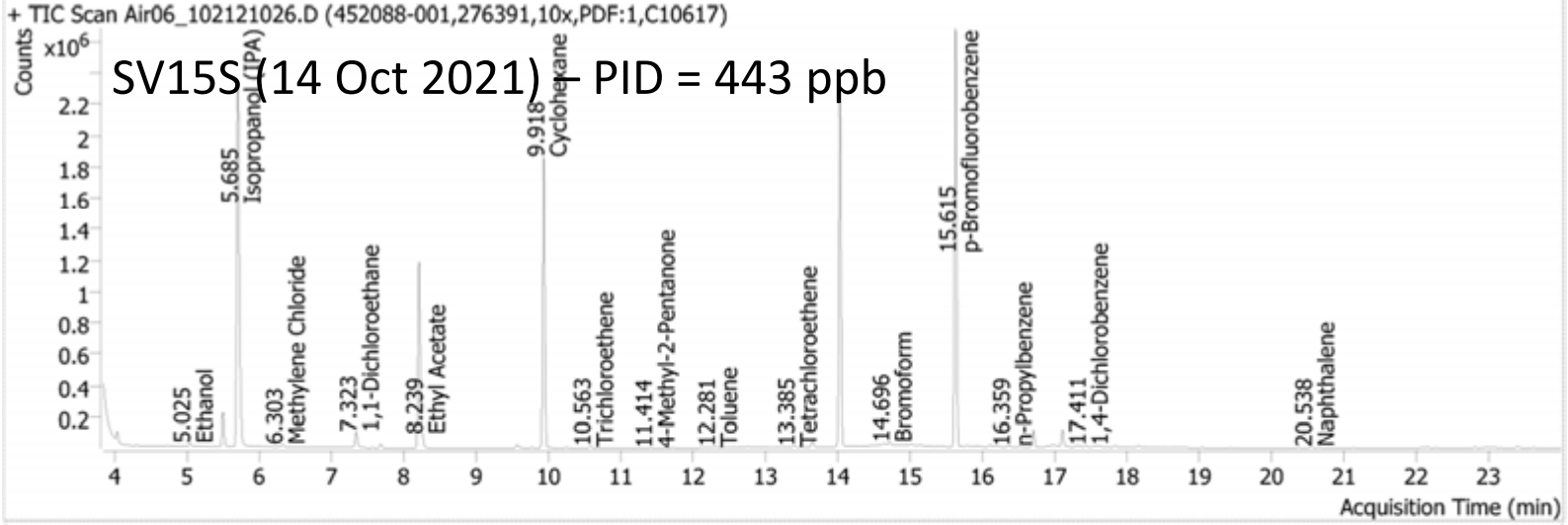
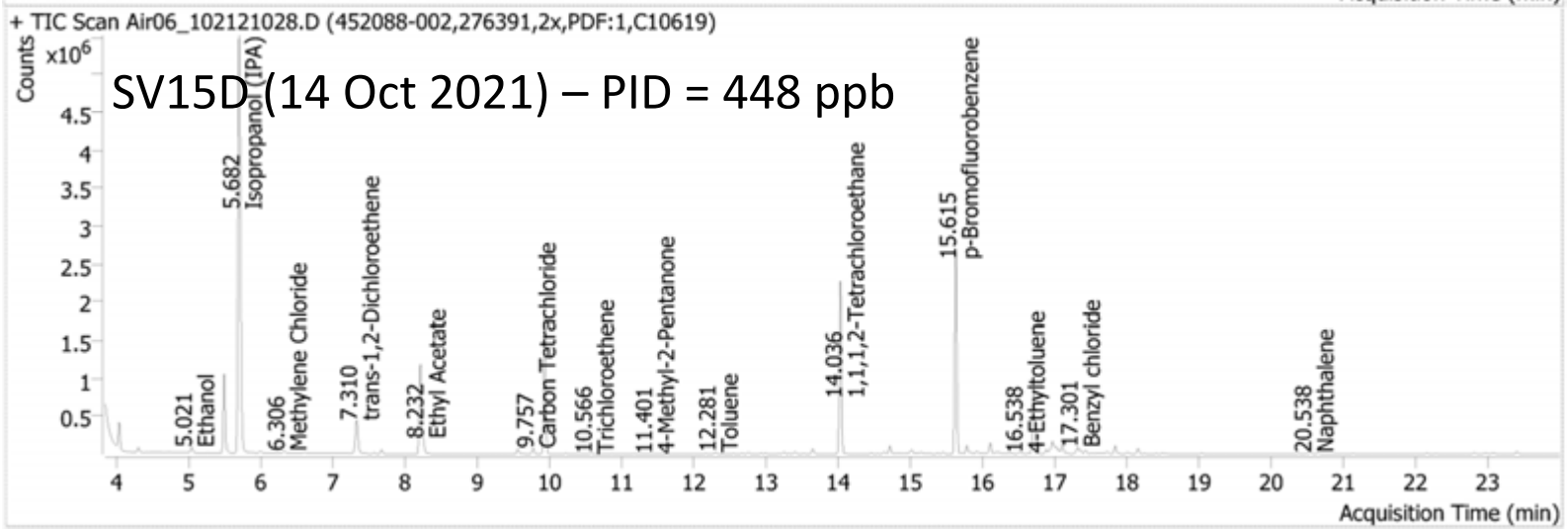
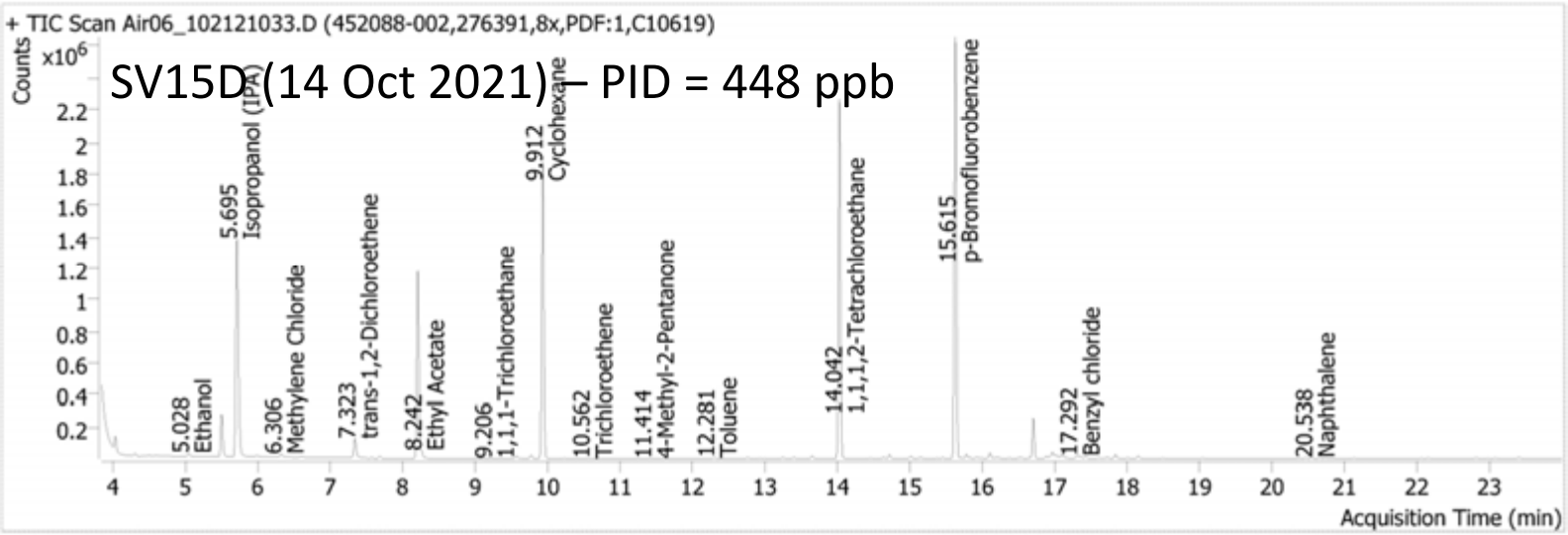
Mass Spec Chromatograms

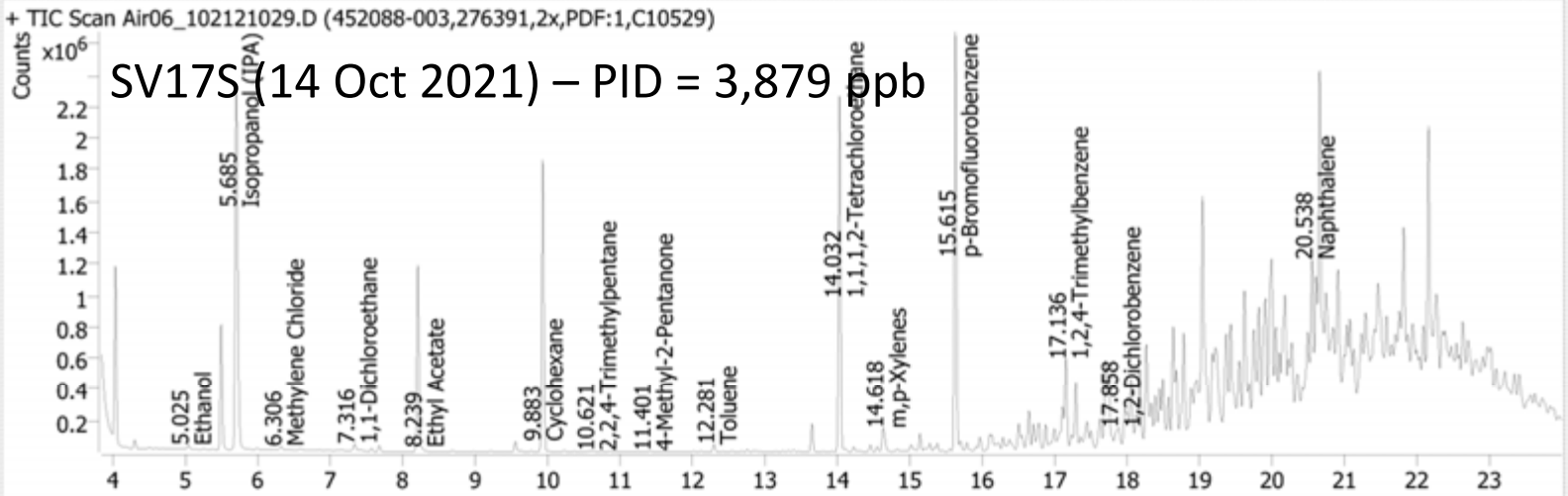

+ TIC Scan Air06_102121020.D (BLANK,QC950879,276391,1x,PDF:1,C10406)
Lab Blank
Counts
x10^6
4.581 Butane
5.510 Acetone
6.303 Methylene Chloride
8.261 n-Hexane
8.967 1,2-Dichloroethane
9.905 Cyclohexane
10.614 2,2,4-Trimethylpentane
11.426 4-Methyl-2-Pentanone
12.281 Toluene
14.019 1,1,1,2-Tetrachloroethane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

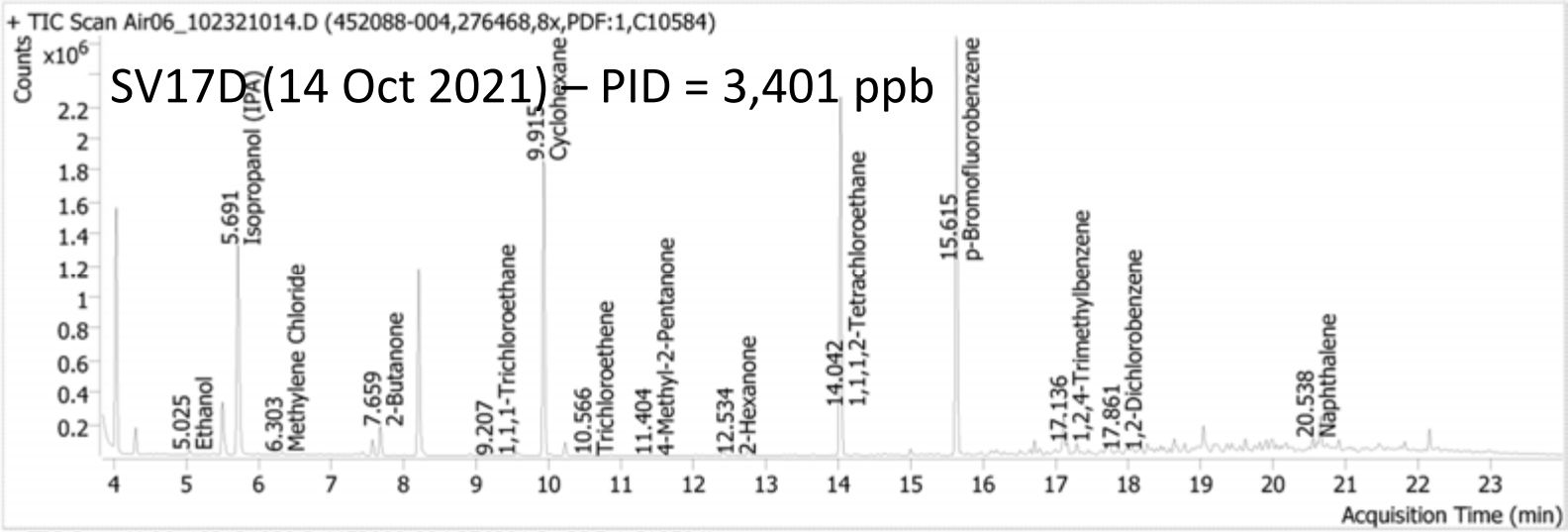

+ TIC Scan Air06_102321007.D (BLANK,QC951082,276468,1x,PDF:1,C10011)
Lab Blank
Counts
x10^6
4.572 Butane
5.513 Acetone
6.300 Methylene Chloride
8.258 Ethyl Acetate
8.954 1,2-Dichloroethane
9.912 Cyclohexane
10.618 2,2,4-Trimethylpentane
11.424 4-Methyl-2-Pentanone
12.285 Toluene
13.379 Tetrachloroethene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

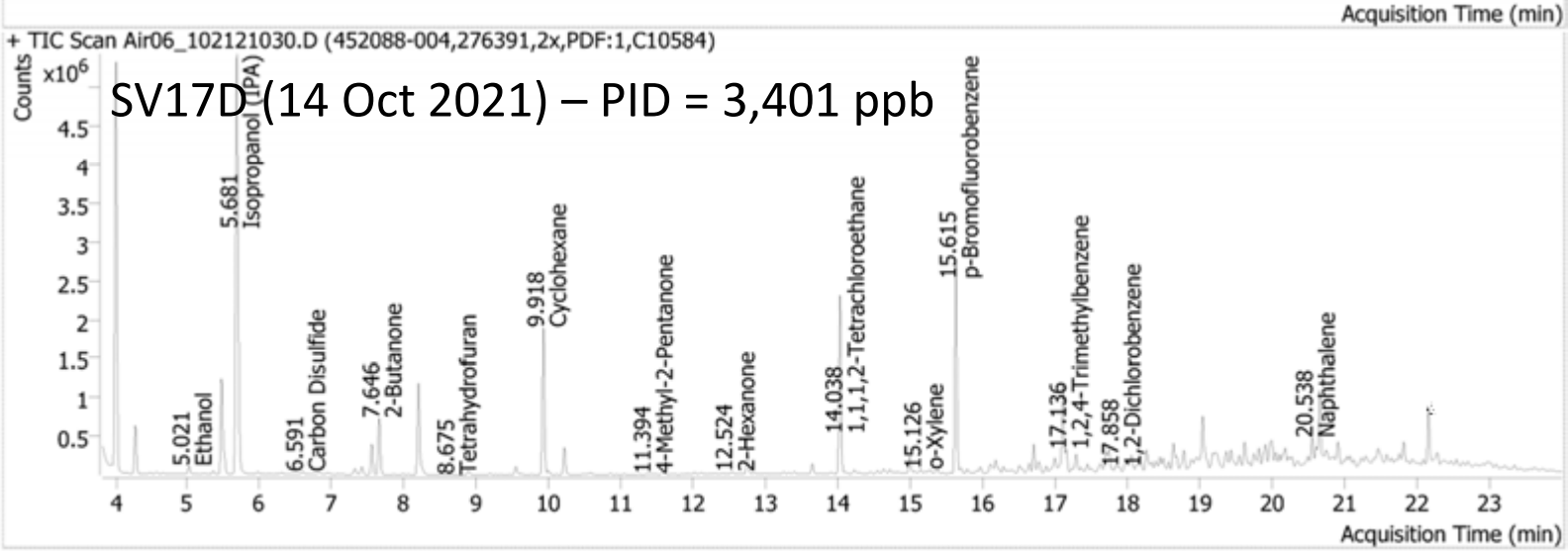

+ TIC Scan Air06_102121026.D (452088-001,276391,10x,PDF:1,C10617)
SV15S (14 Oct 2021) – PID = 443 ppb
Counts
x10^6
5.025 Ethanol
5.685 Isopropanol (IPA)
6.303 Methylene Chloride
7.323 1,1-Dichloroethane
8.239 Ethyl Acetate
9.918 Cyclohexane
10.563 Trichloroethene
11.414 4-Methyl-2-Pentanone
12.281 Toluene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

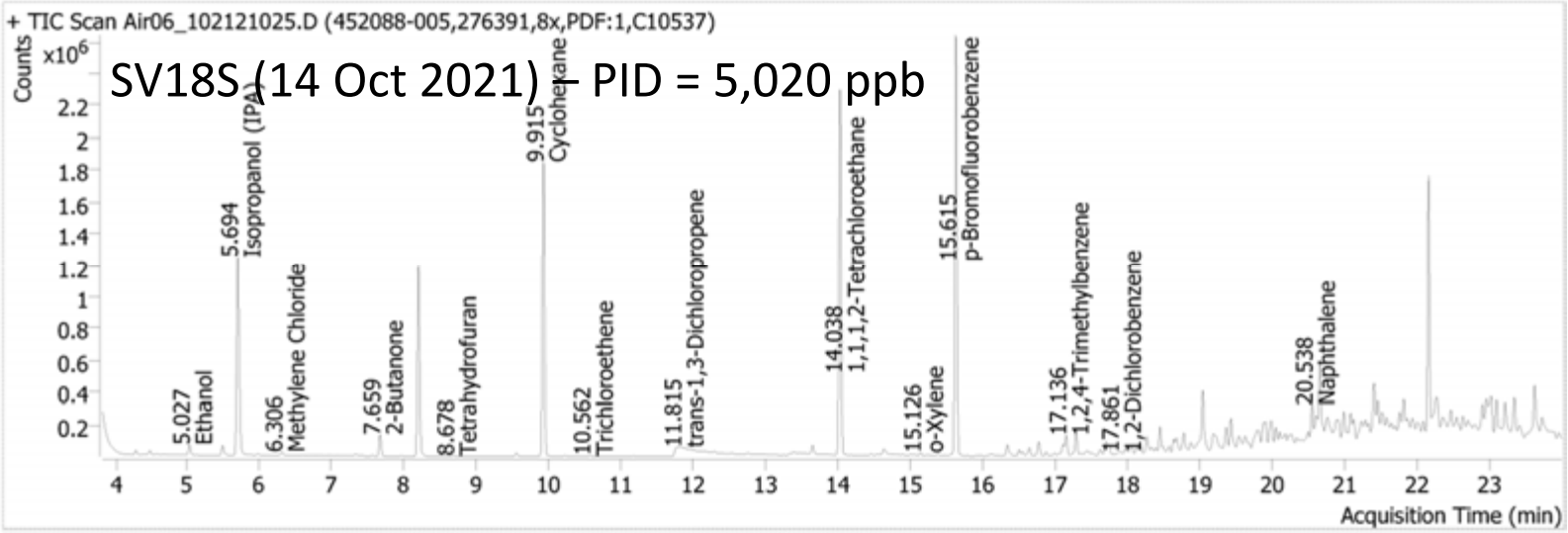

+ TIC Scan Air06_102121028.D (452088-002,276391,2x,PDF:1,C10619)
SV15D (14 Oct 2021) – PID = 448 ppb
Counts
x10^6
5.021 Ethanol
5.682 Isopropanol (IPA)
6.306 Methylene Chloride
7.310 trans-1,2-Dichloroethene
8.232 Ethyl Acetate
9.757 Carbon Tetrachloride
10.566 Trichloroethene
11.401 4-Methyl-2-Pentanone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

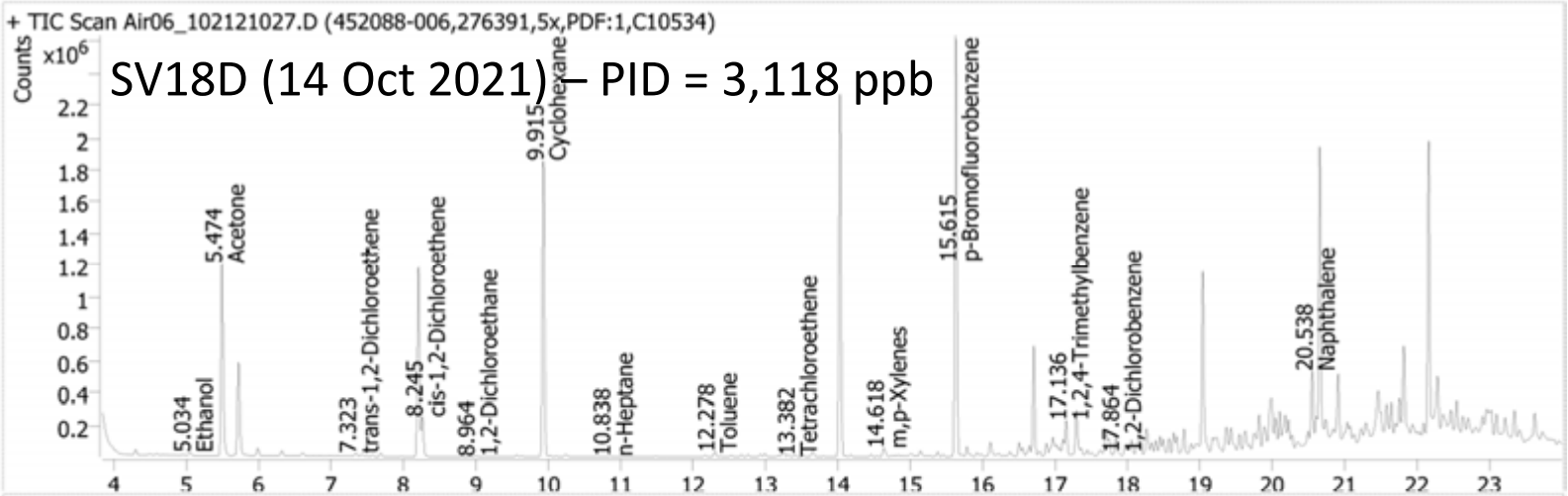

+ TIC Scan Air06_102121033.D (452088-002,276391,8x,PDF:1,C10619)
SV15D (14 Oct 2021) – PID = 448 ppb
Counts
x10^6
5.028 Ethanol
5.695 Isopropanol (IPA)
6.306 Methylene Chloride
7.323 trans-1,2-Dichloroethene
8.242 Ethyl Acetate
9.206 1,1,1-Trichloroethane
9.912 Cyclohexane
10.562 Trichloroethene
11.414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

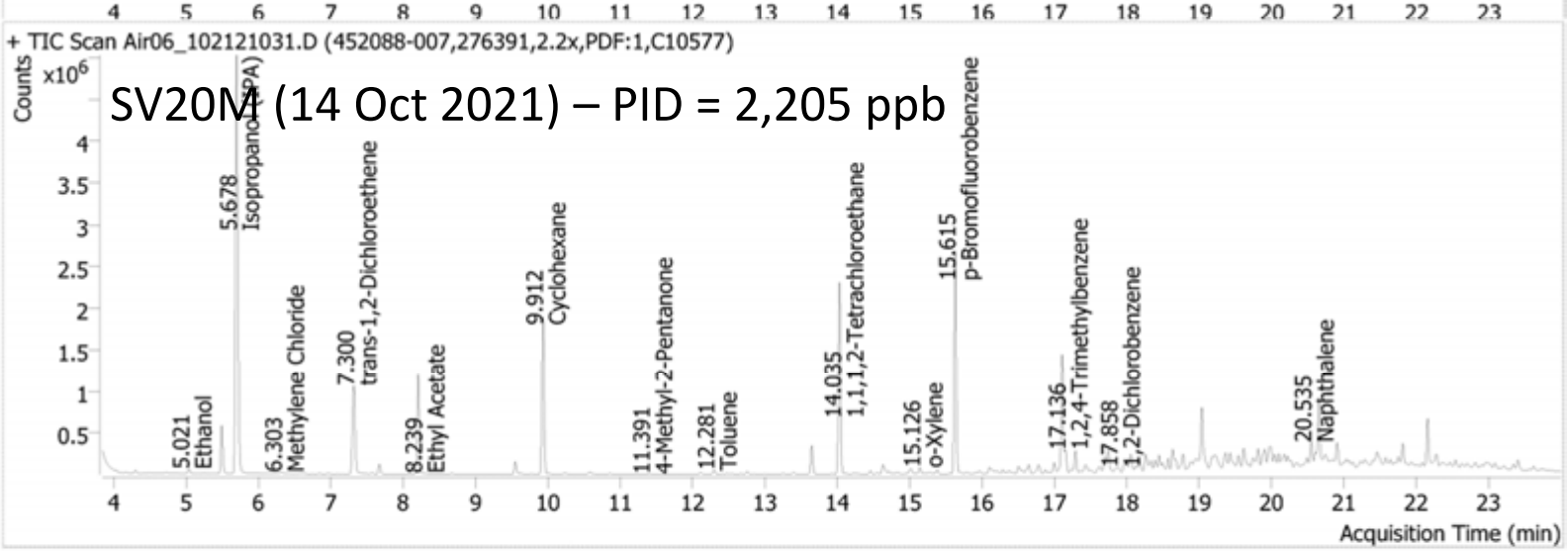

+ TIC Scan Air06_102121029.D (452088-003,276391,2x,PDF:1,C10529)
SV17S (14 Oct 2021) – PID = 3,879 ppb
Counts
x10^6
5.025 Ethanol
5.685 Isopropanol (IPA)
6.306 Methylene Chloride
7.316 1,1-Dichloroethane
8.239 Ethyl Acetate
9.883 Cyclohexane
10.621 2,2,4-Trimethylpentane
11.401 4-Methyl-2-Pentanone
12.281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

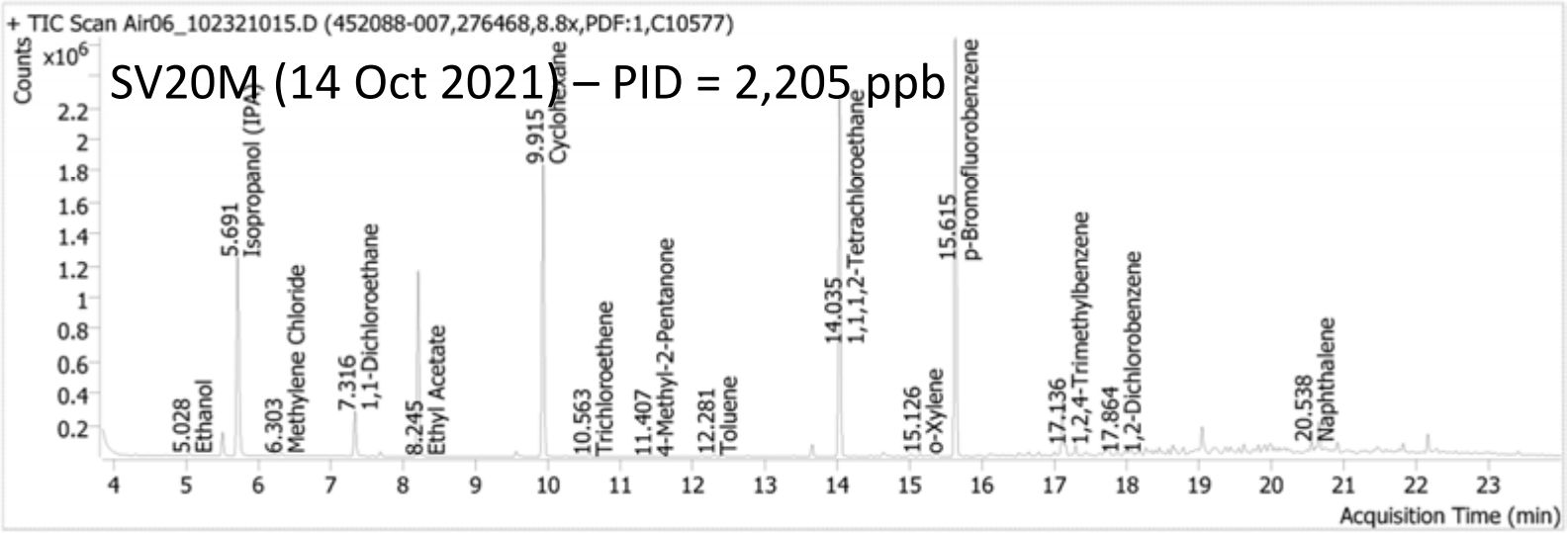

+ TIC Scan Air06_102321014.D (452088-004,276468,8x,PDF:1,C10584)
SV17D (14 Oct 2021) – PID = 3,401 ppb
Counts
x10^6
5.025 Ethanol
5.691 Isopropanol (IPA)
6.303 Methylene Chloride
7.659 2-Butanone
9.207 1,1,1-Trichloroethane
9.915 Cyclohexane
10.566 Trichloroethene
11.404 4-Methyl-2-Pentanone
12.534 2-Hexanone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

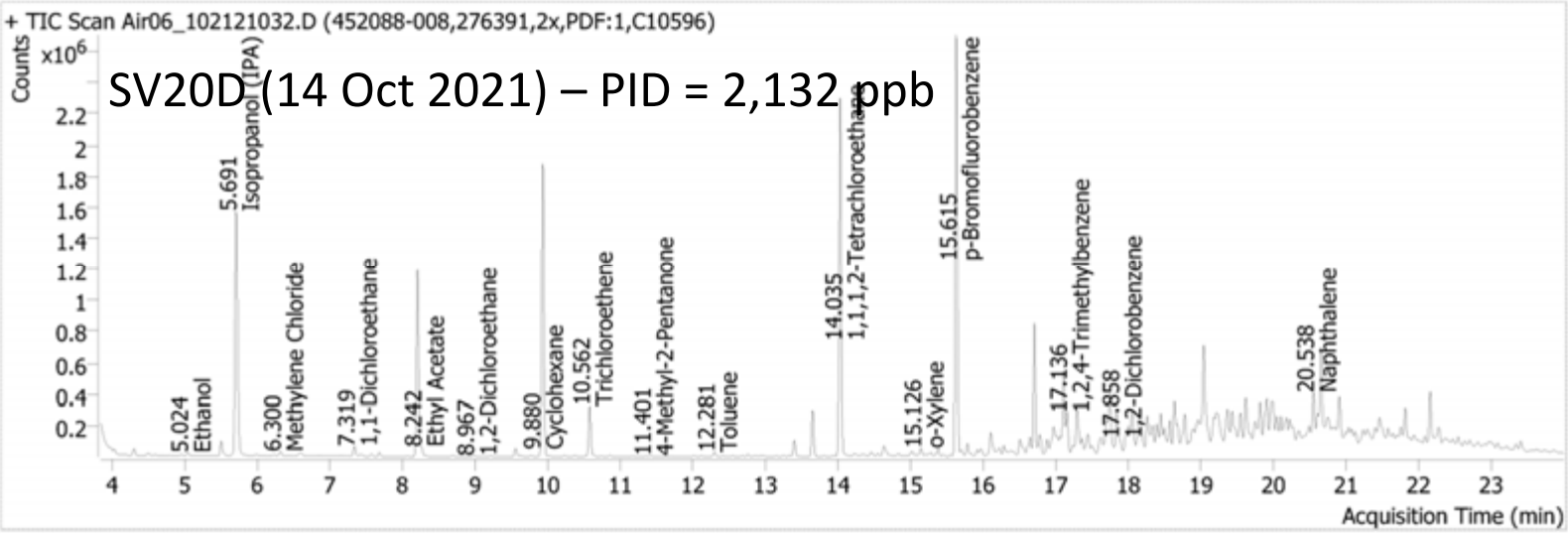

+ TIC Scan Air06_102121030.D (452088-004,276391,2x,PDF:1,C10584)
SV17D (14 Oct 2021) – PID = 3,401 ppb
Counts
x10^6
5.021 Ethanol
5.681 Isopropanol (IPA)
6.591 Carbon Disulfide
7.646 2-Butanone
8.675 Tetrahydrofuran
9.918 Cyclohexane
11.394 4-Methyl-2-Pentanone
12.524 2-Hexanone
14.038 1,1,1,2-Tetrachloroethane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


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


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

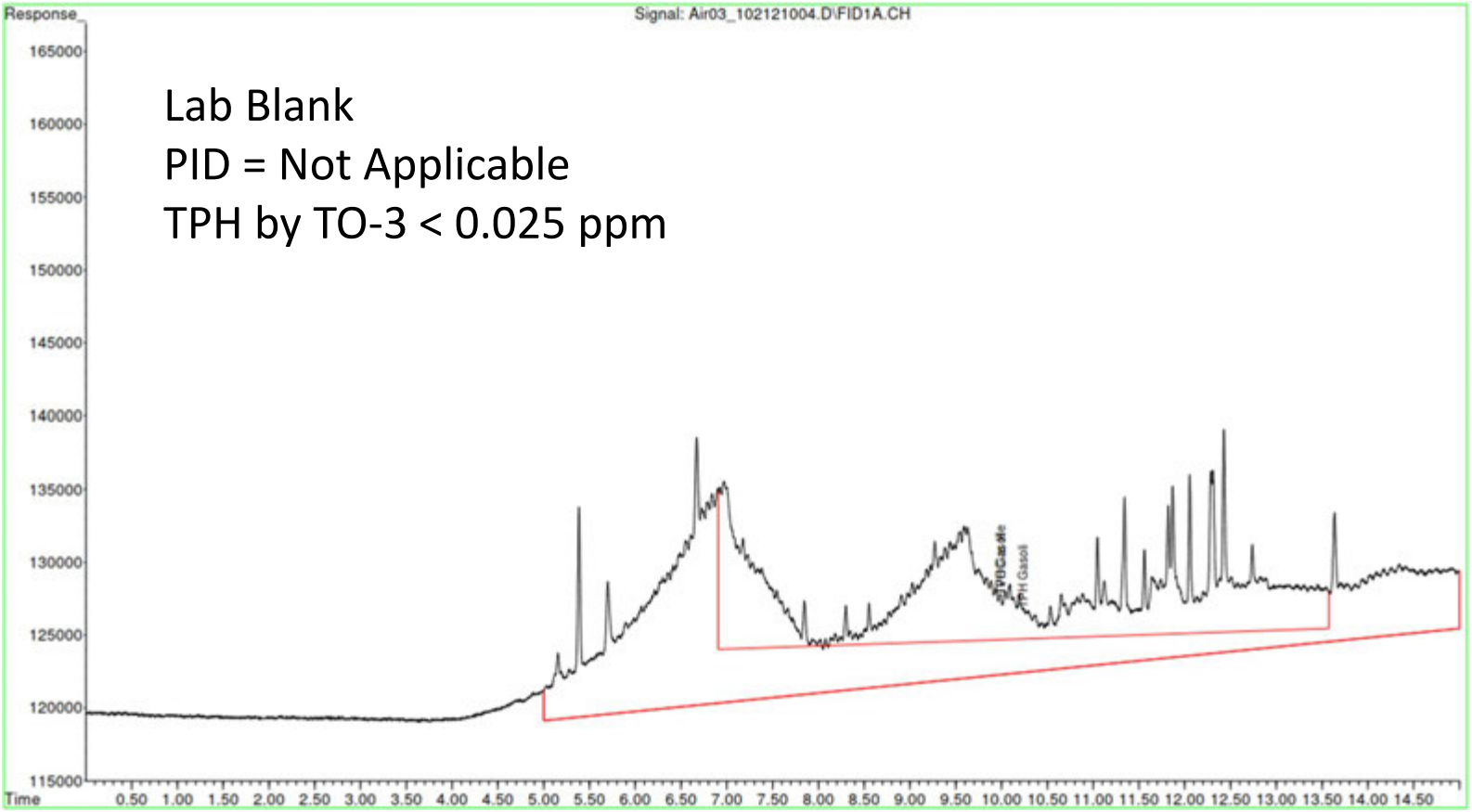

+ TIC Scan Air06_102121031.D (452088-007,276391,2.2x,PDF:1,C10577)
SV20M (14 Oct 2021) – PID = 2,205 ppb
Counts
x10^6
5.021 Ethanol
5.678 Isopropanol (IPA)
6.303 Methylene Chloride
7.300 trans-1,2-Dichloroethene
8.239 Ethyl Acetate
9.912 Cyclohexane
11.391 4-Methyl-2-Pentanone
12.281 Toluene
14.035 1,1,1,2-Tetrachloroethane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

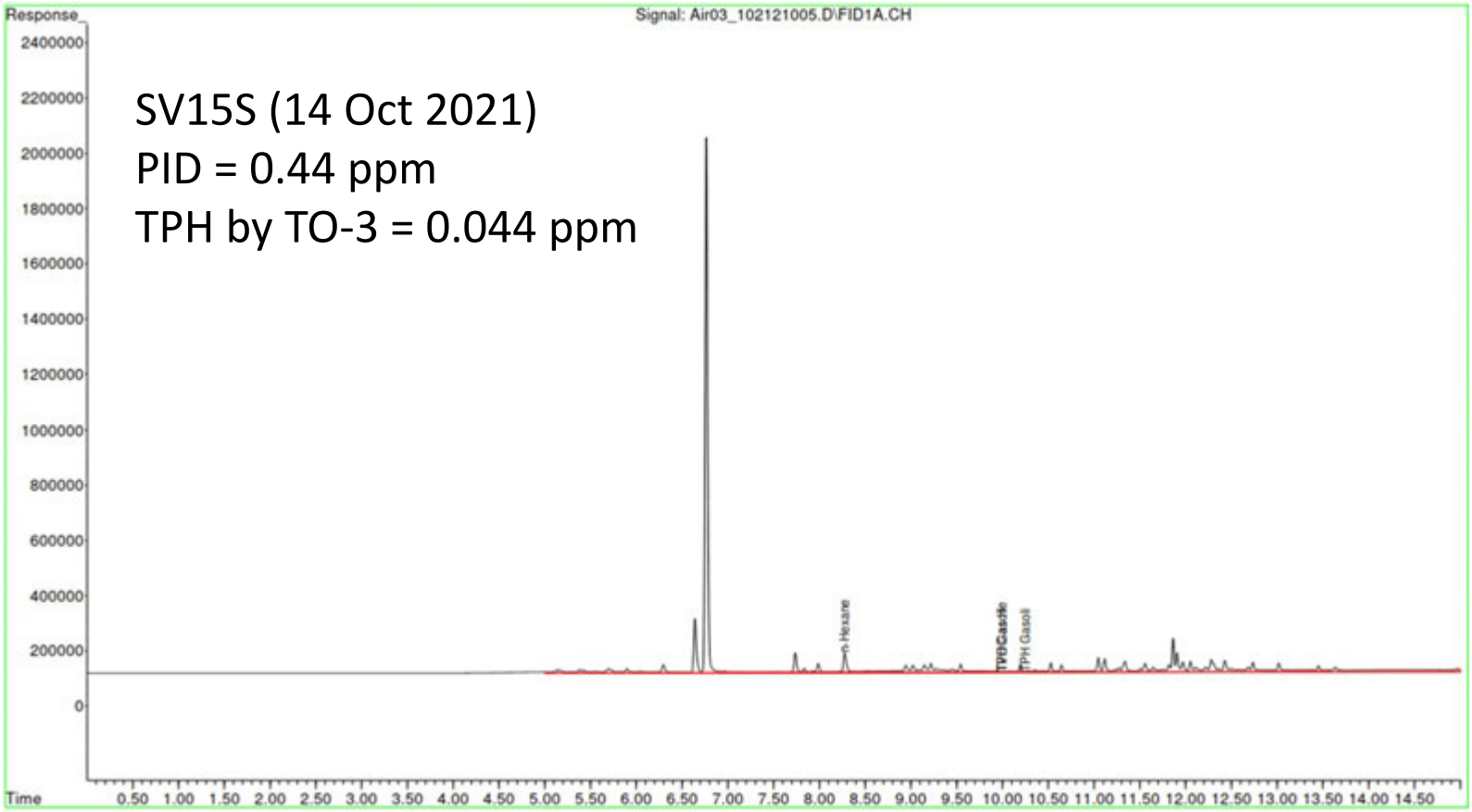

+ TIC Scan Air06_102321015.D (452088-007,276468,8.8x,PDF:1,C10577)
SV20M (14 Oct 2021) – PID = 2,205 ppb
Counts
x10^6
5.028 Ethanol
5.691 Isopropanol (IPA)
6.303 Methylene Chloride
7.316 1,1-Dichloroethane
8.245 Ethyl Acetate
9.915 Cyclohexane
10.563 Trichloroethene
11.407 4-Methyl-2-Pentanone
12.281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

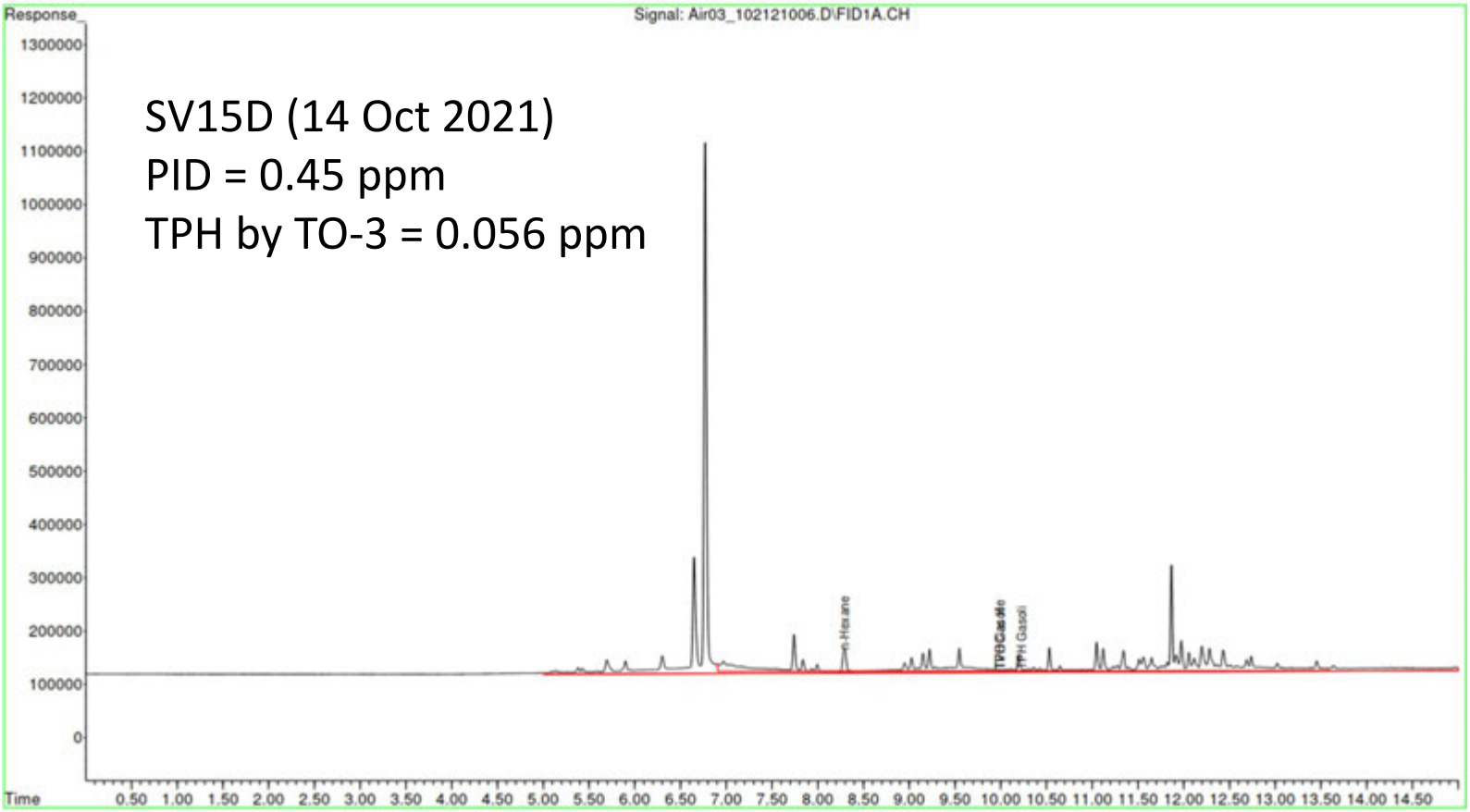

+ TIC Scan Air06_102121032.D (452088-008,276391,2x,PDF:1,C10596)
SV20D (14 Oct 2021) – PID = 2,132 ppb
Counts
x10^6
5.024 Ethanol
5.691 Isopropanol (IPA)
6.300 Methylene Chloride
7.319 1,1-Dichloroethane
8.242 Ethyl Acetate
8.967 1,2-Dichloroethane
9.880 Cyclohexane
10.562 Trichloroethene
11.401 4-Methyl-2-Pentanone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

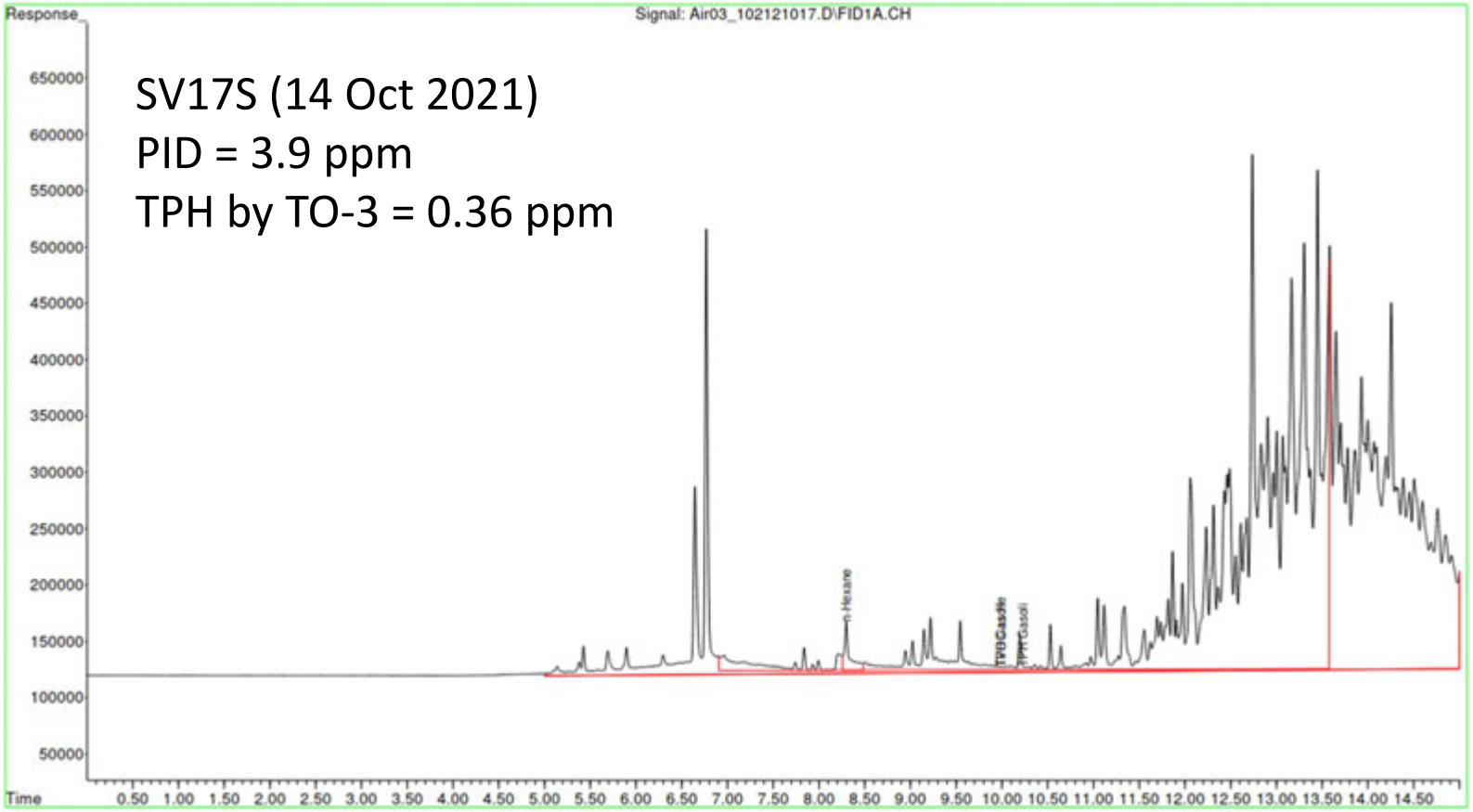
October 2021
Soil Vapor Samples

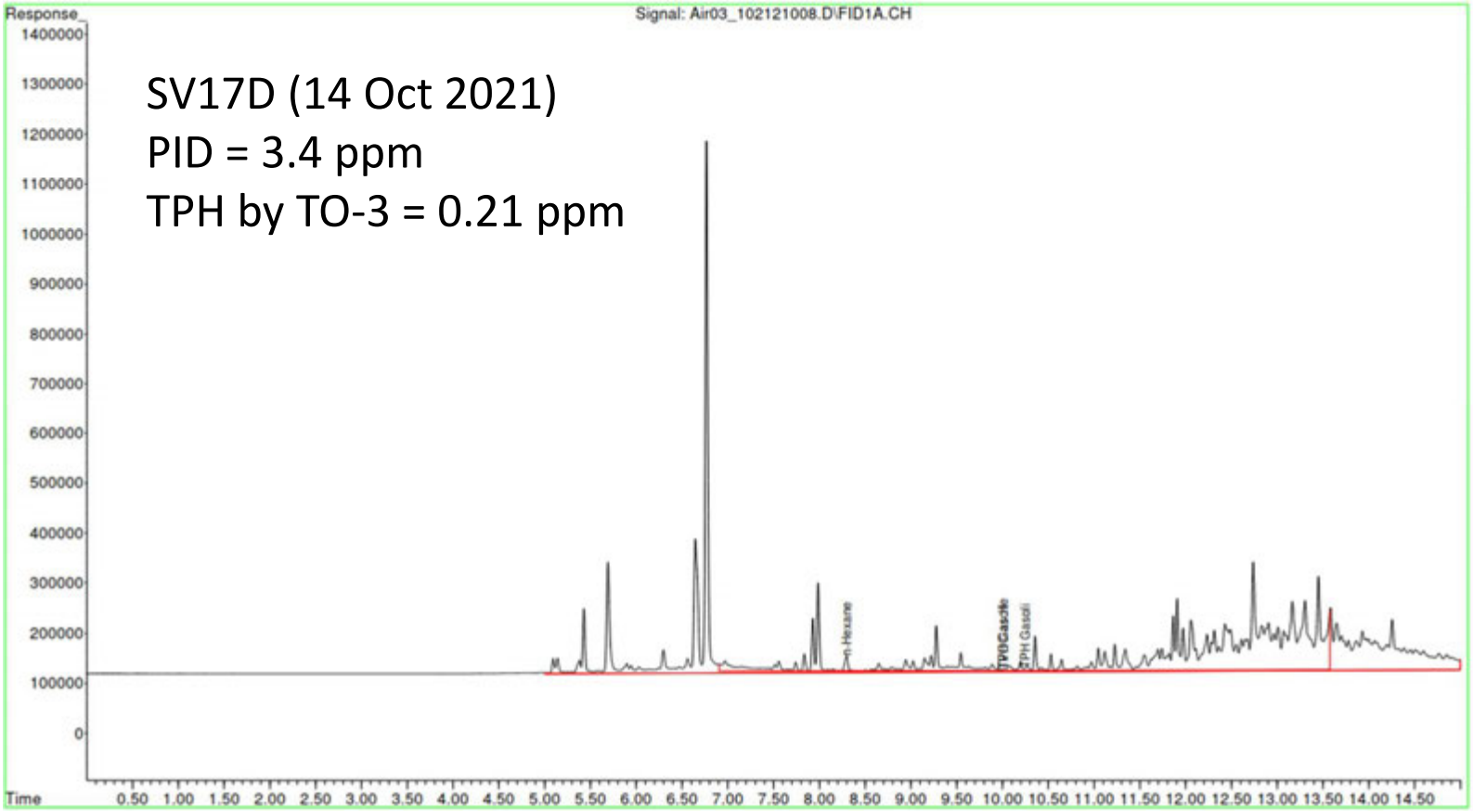
FID Chromatograms

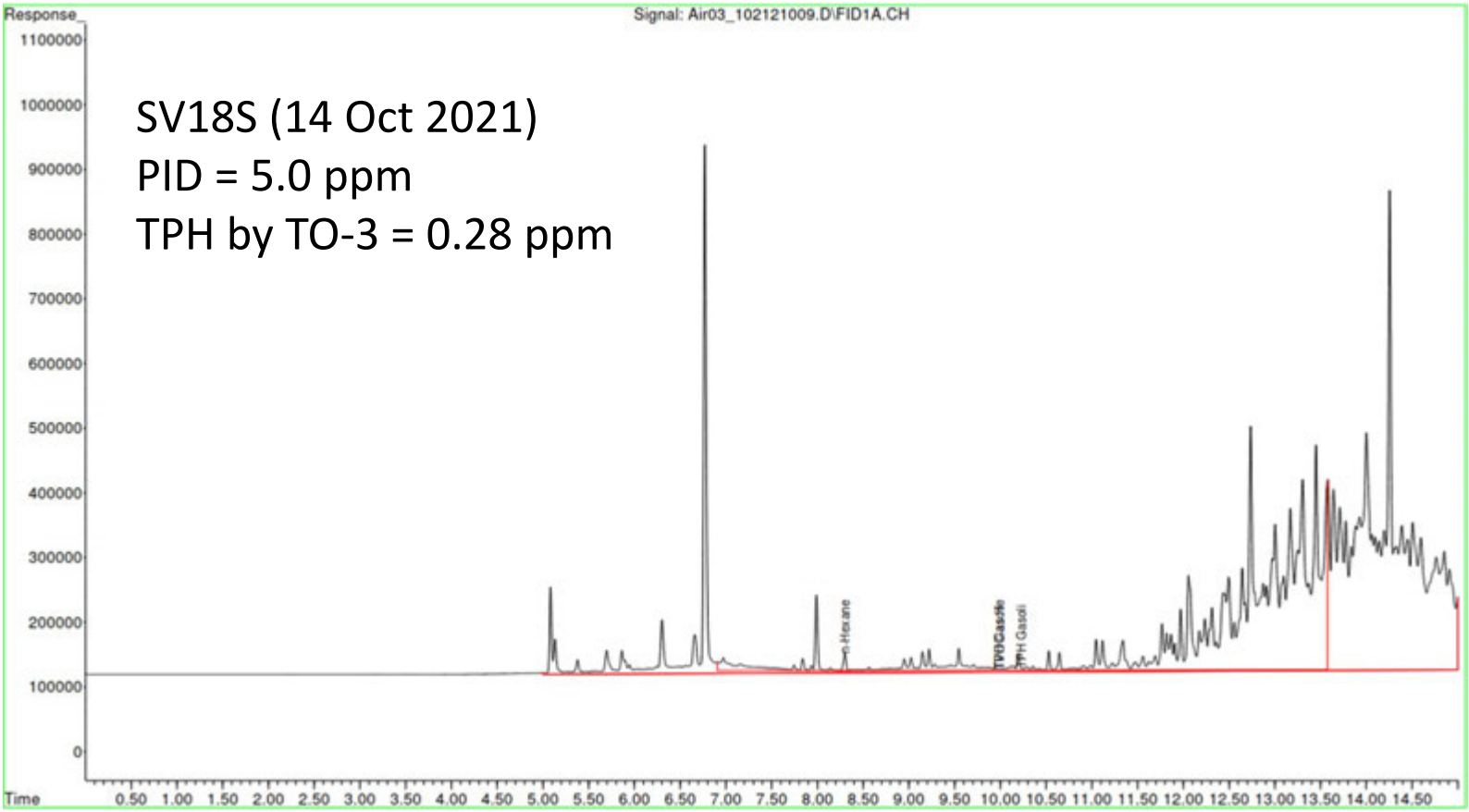

Signal: Air03_102121004.D\FID1A.CH
Response
Time
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
TPH Gasoli

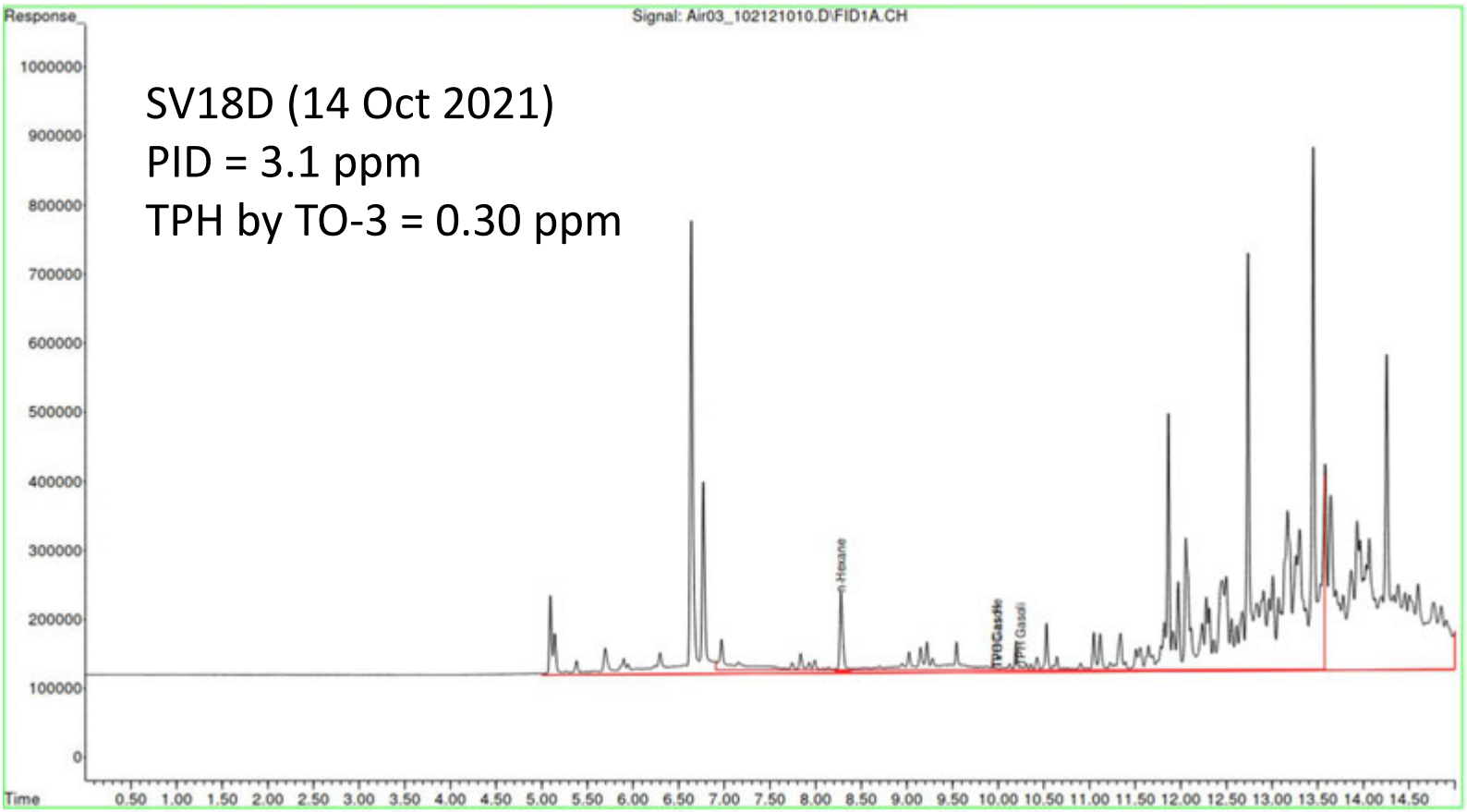

Signal: Air03_102121005.D\FID1A.CH
Response
Time
SV15S (14 Oct 2021)
PID = 0.44 ppm
TPH by TO-3 = 0.044 ppm
n Hexane
TPH Gasoli

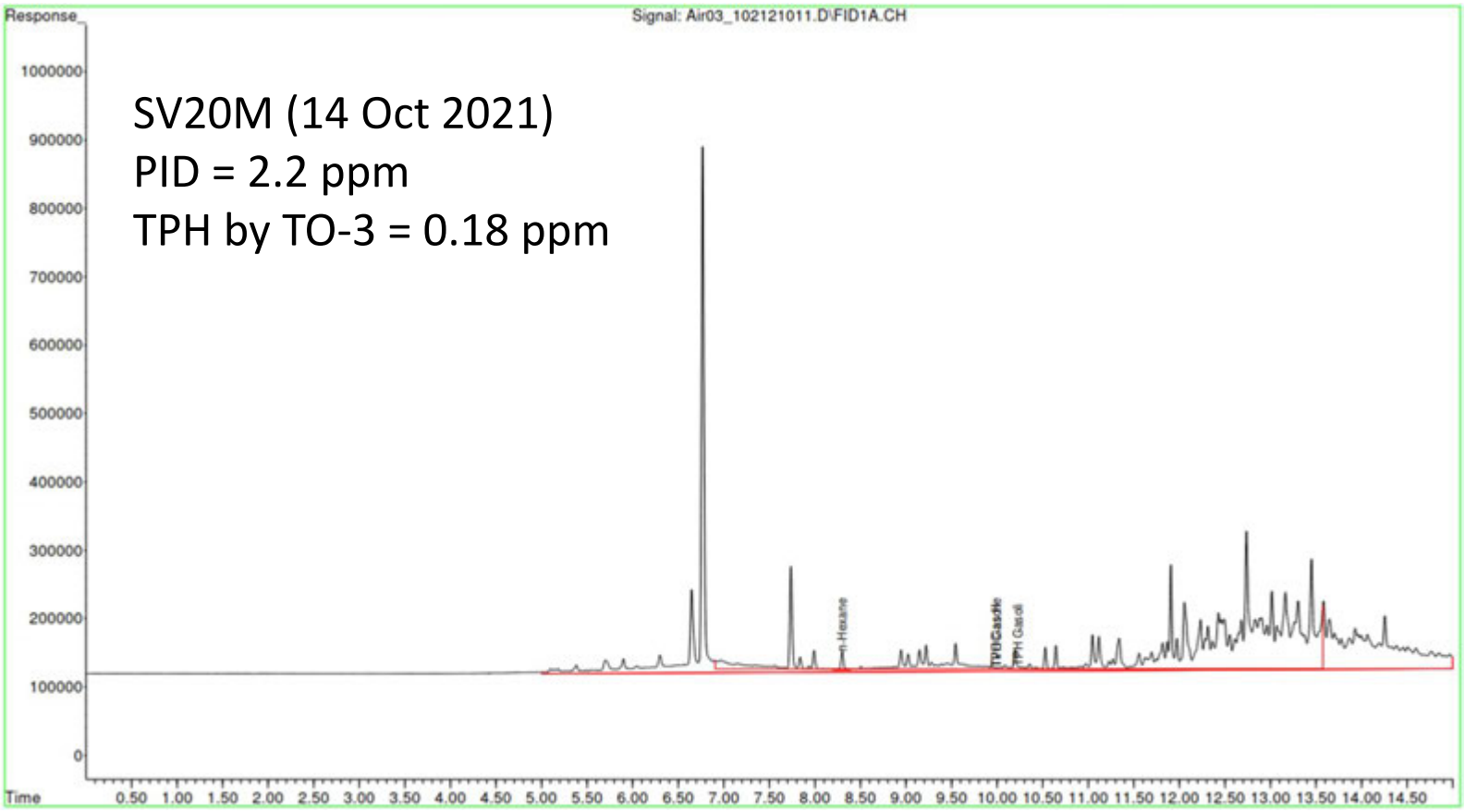

Signal: Air03_102121006.D\FID1A.CH
Response
Time
SV15D (14 Oct 2021)
PID = 0.45 ppm
TPH by TO-3 = 0.056 ppm
n-Hexane
TPH Gasoline
TPH Gasoil

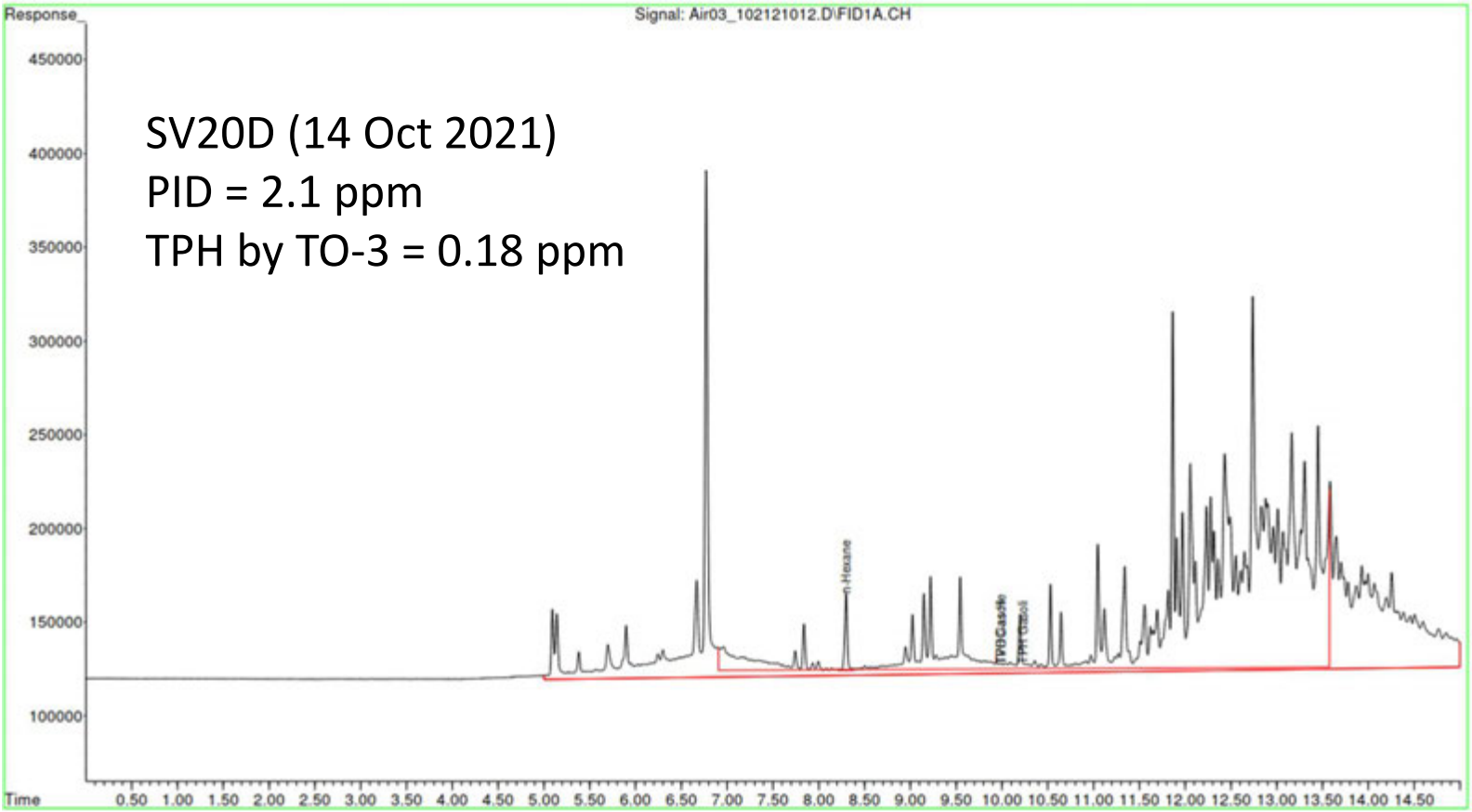

Signal: Air03_102121017.D\FID1A.CH
Response
Time
SV17S (14 Oct 2021)
PID = 3.9 ppm
TPH by TO-3 = 0.36 ppm
n-Hexane
TPH Gasoline
TPH Gasoil


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


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

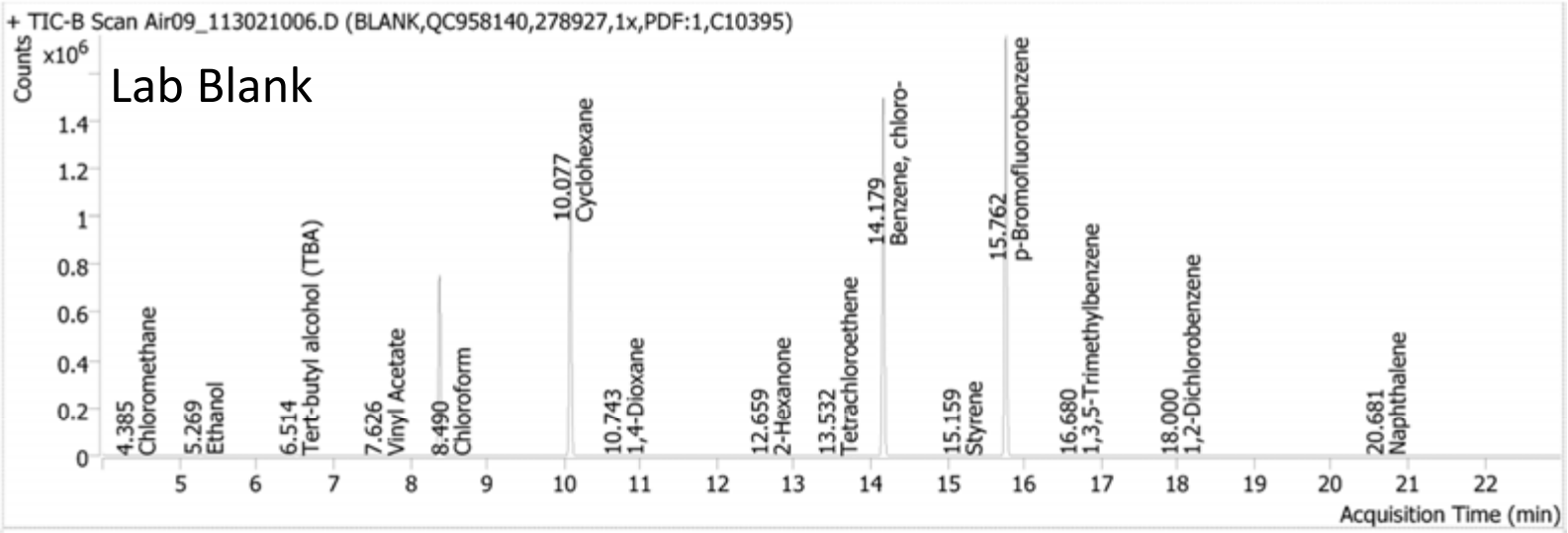

Signal: Air03_102121010.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
SV18D (14 Oct 2021)
PID = 3.1 ppm
TPH by TO-3 = 0.30 ppm

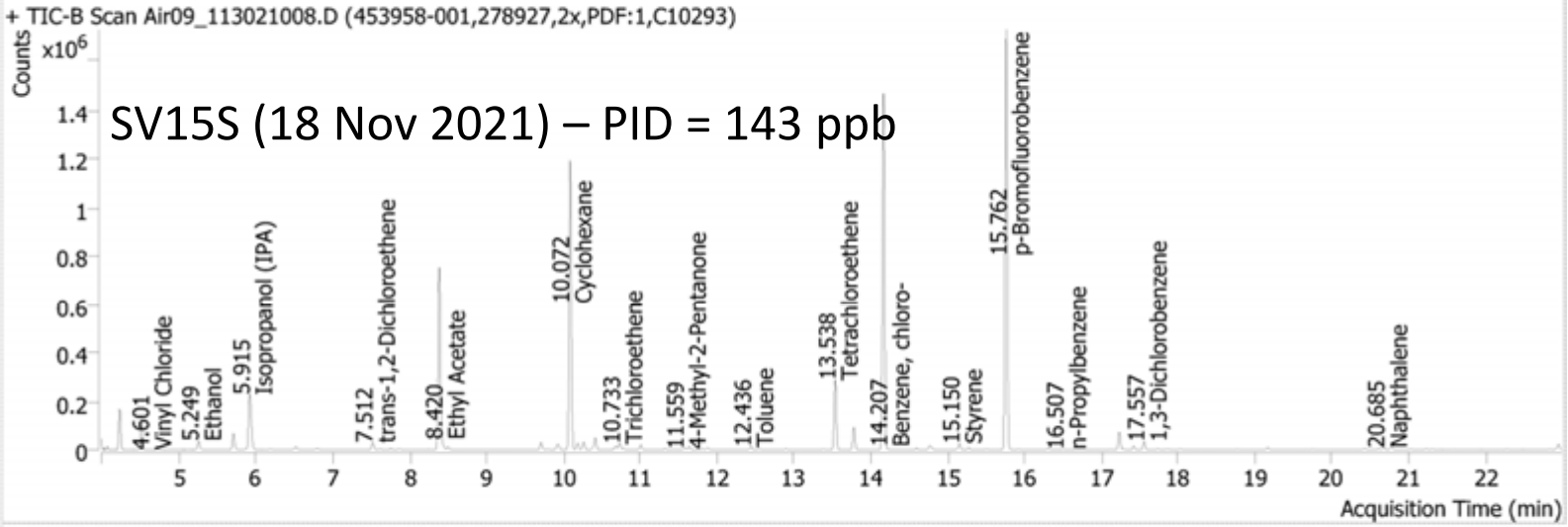

Signal: Air03_102121011.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
SV20M (14 Oct 2021)
PID = 2.2 ppm
TPH by TO-3 = 0.18 ppm

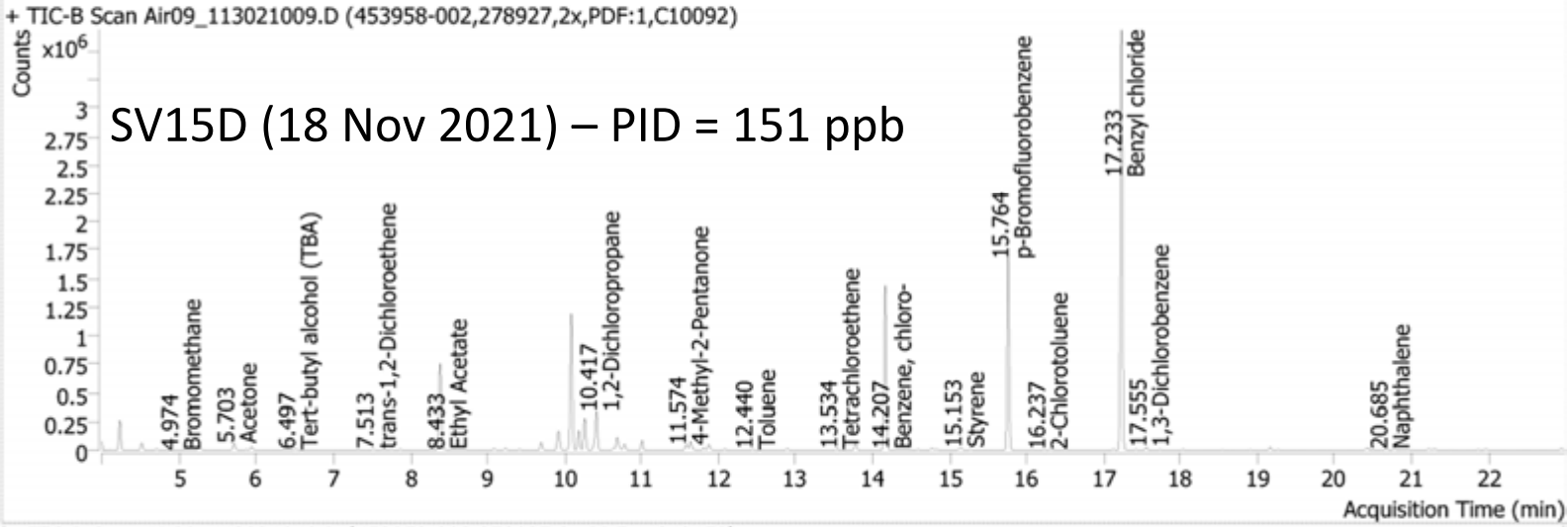

Signal: Air03_102121012.D\FID1A.CH
Response
450000
400000
350000
300000
250000
200000
150000
100000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
n-Hexane
SV20D (14 Oct 2021)
PID = 2.1 ppm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

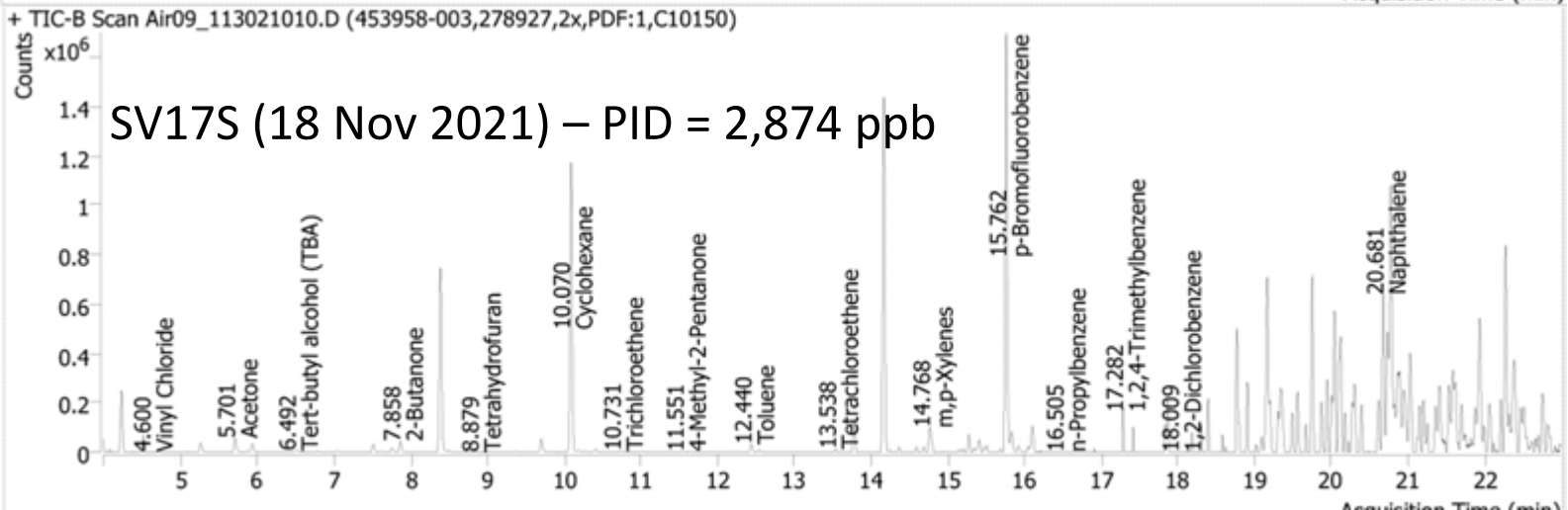
November 2021
Soil Vapor Samples

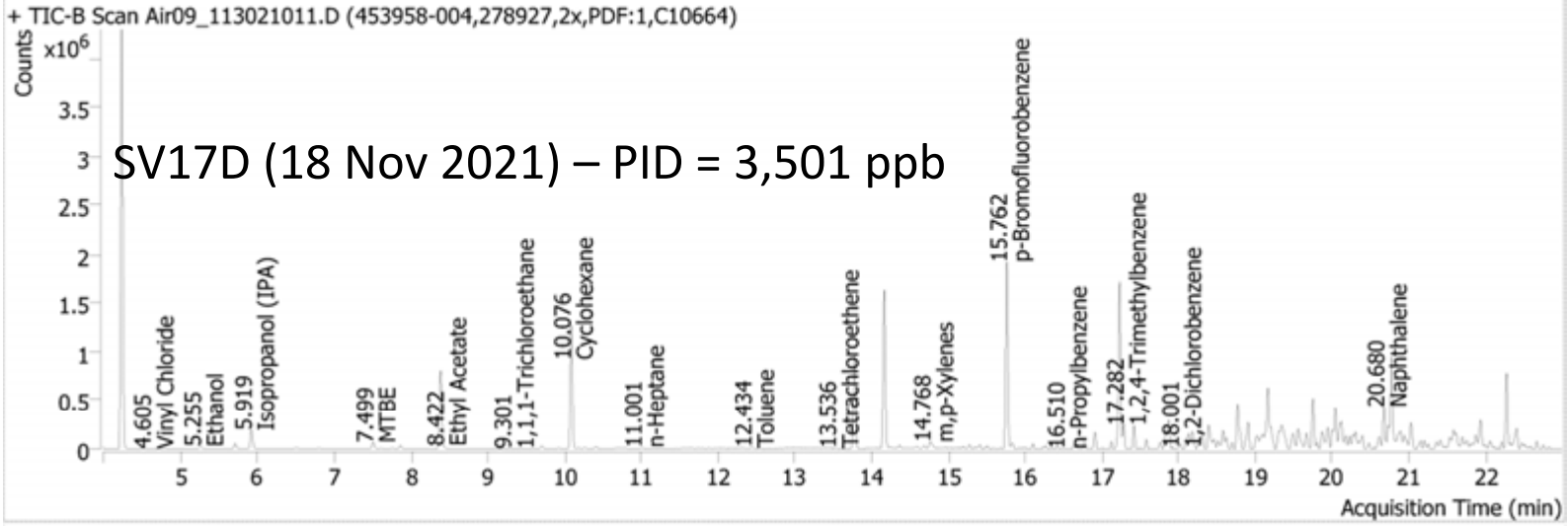
Mass Spec Chromatograms

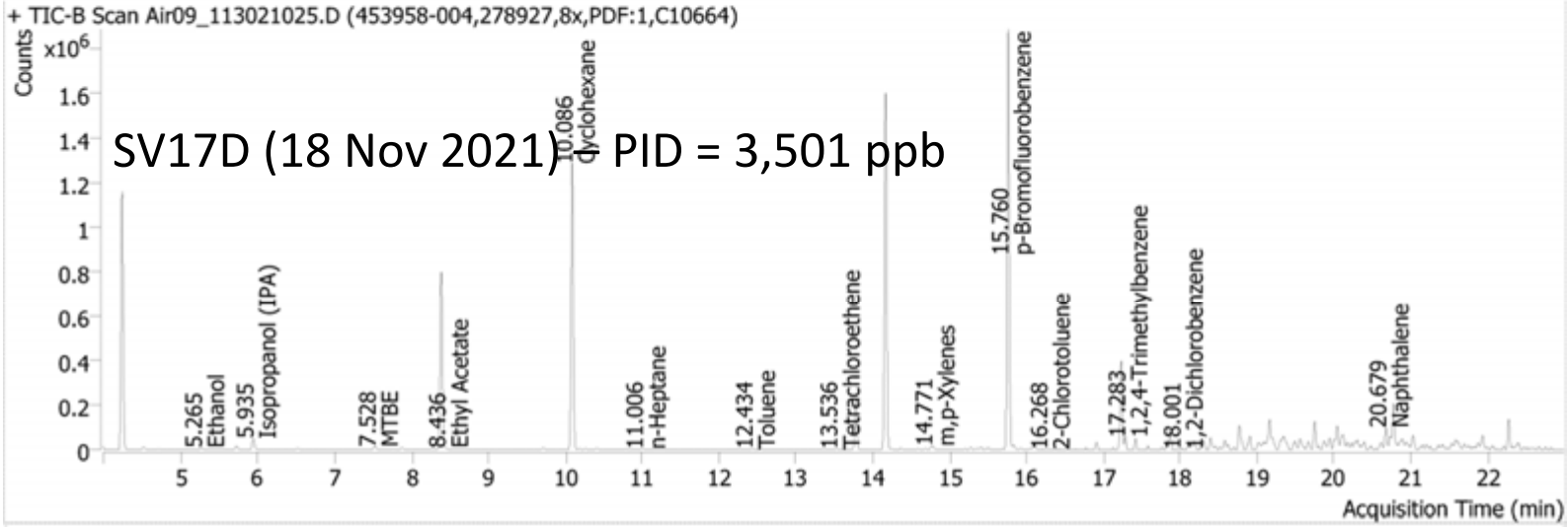

+ TIC-B Scan Air09_113021006.D (BLANK,QC958140,278927,1x,PDF:1,C10395)
Lab Blank
Counts
x10^6
4.385 Chloromethane
5.269 Ethanol
6.514 Tert-butyl alcohol (TBA)
7.626 Vinyl Acetate
8.490 Chloroform
10.077 Cyclohexane
10.743 1,4-Dioxane
12.659 2-Hexanone
13.532 Tetrachloroethene
14.179 Benzene, chloro-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

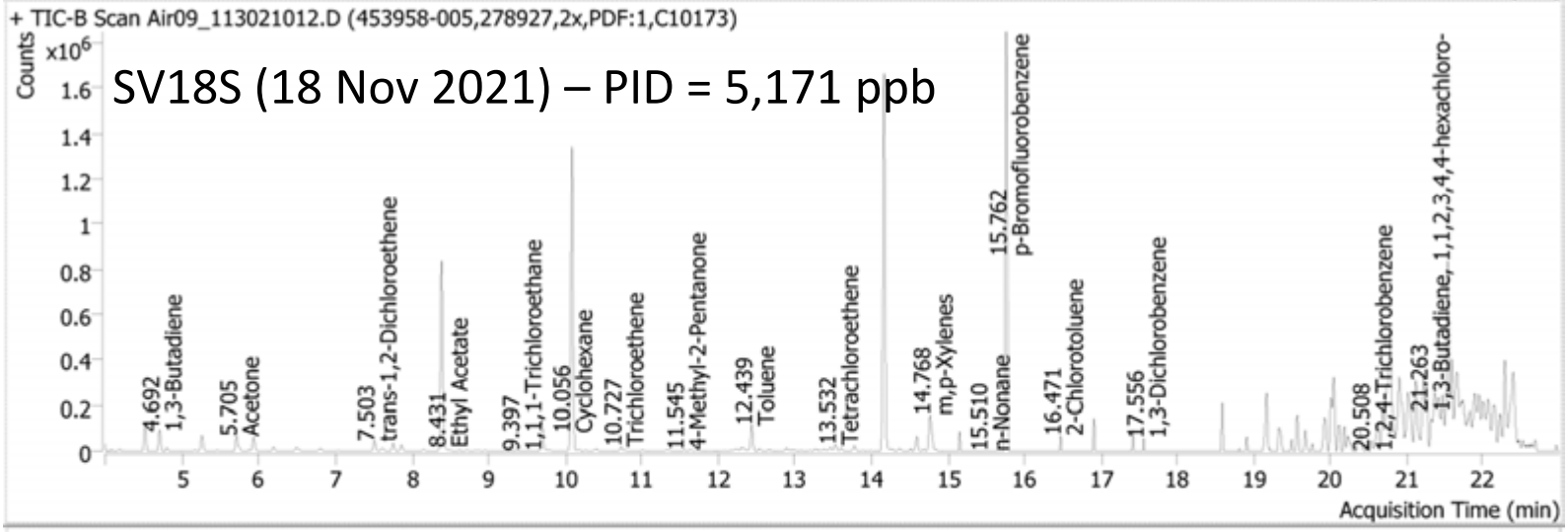

+ TIC-B Scan Air09_113021008.D (453958-001,278927,2x,PDF:1,C10293)
SV15S (18 Nov 2021) – PID = 143 ppb
Counts
x10^6
4.601 Vinyl Chloride
5.249 Ethanol
5.915 Isopropanol (IPA)
7.512 trans-1,2-Dichloroethene
8.420 Ethyl Acetate
10.072 Cyclohexane
10.733 Trichloroethene
11.559 4-Methyl-2-Pentanone
12.436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

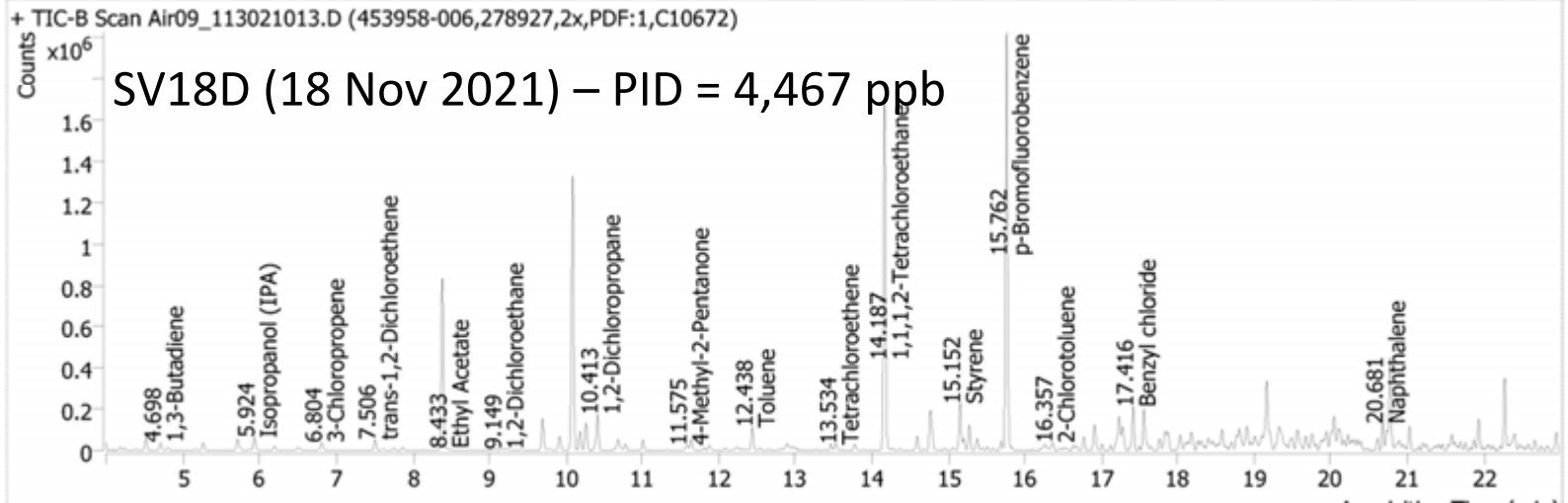

+ TIC-B Scan Air09_113021009.D (453958-002,278927,2x,PDF:1,C10092)
SV15D (18 Nov 2021) – PID = 151 ppb
Counts
x10^6
4.974 Bromomethane
5.703 Acetone
6.497 Tert-butyl alcohol (TBA)
7.513 trans-1,2-Dichloroethene
8.433 Ethyl Acetate
10.417 1,2-Dichloropropane
11.574 4-Methyl-2-Pentanone
12.440 Toluene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

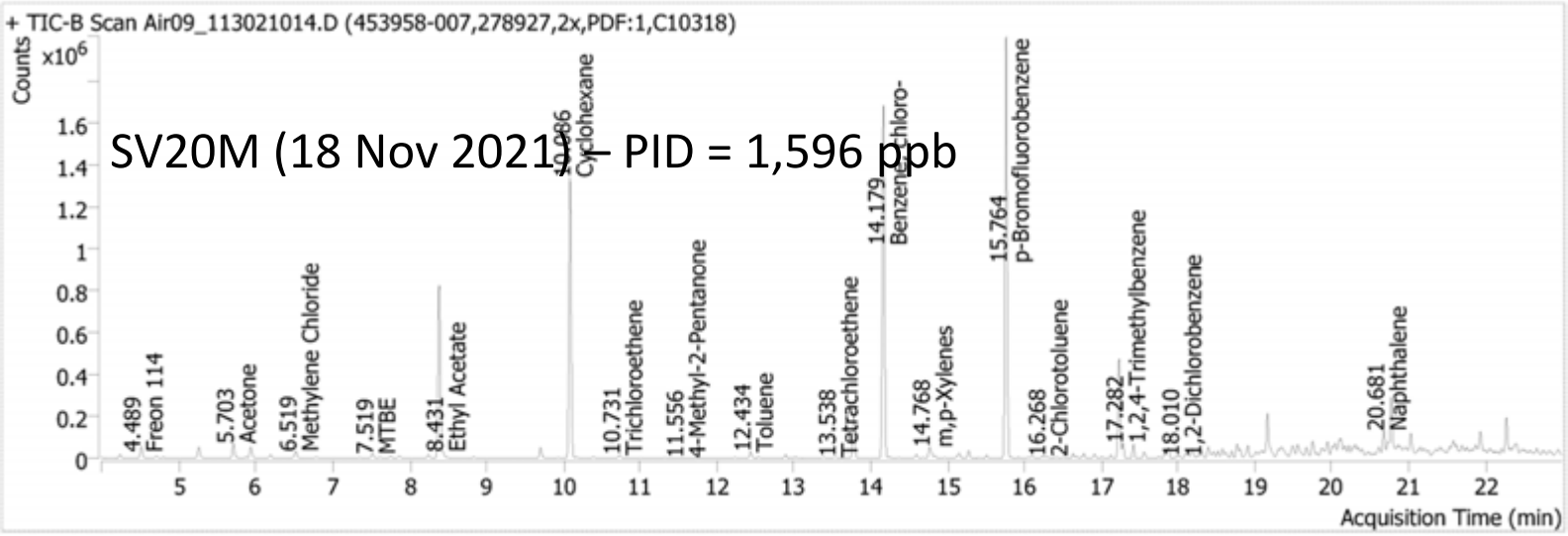

+ TIC-B Scan Air09_113021010.D (453958-003,278927,2x,PDF:1,C10150)
SV17S (18 Nov 2021) – PID = 2,874 ppb
Counts
x10^6
4.600 Vinyl Chloride
5.701 Acetone
6.492 Tert-butyl alcohol (TBA)
7.858 2-Butanone
8.879 Tetrahydrofuran
10.070 Cyclohexane
10.731 Trichloroethene
11.551 4-Methyl-2-Pentanone
12.440 Toluene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

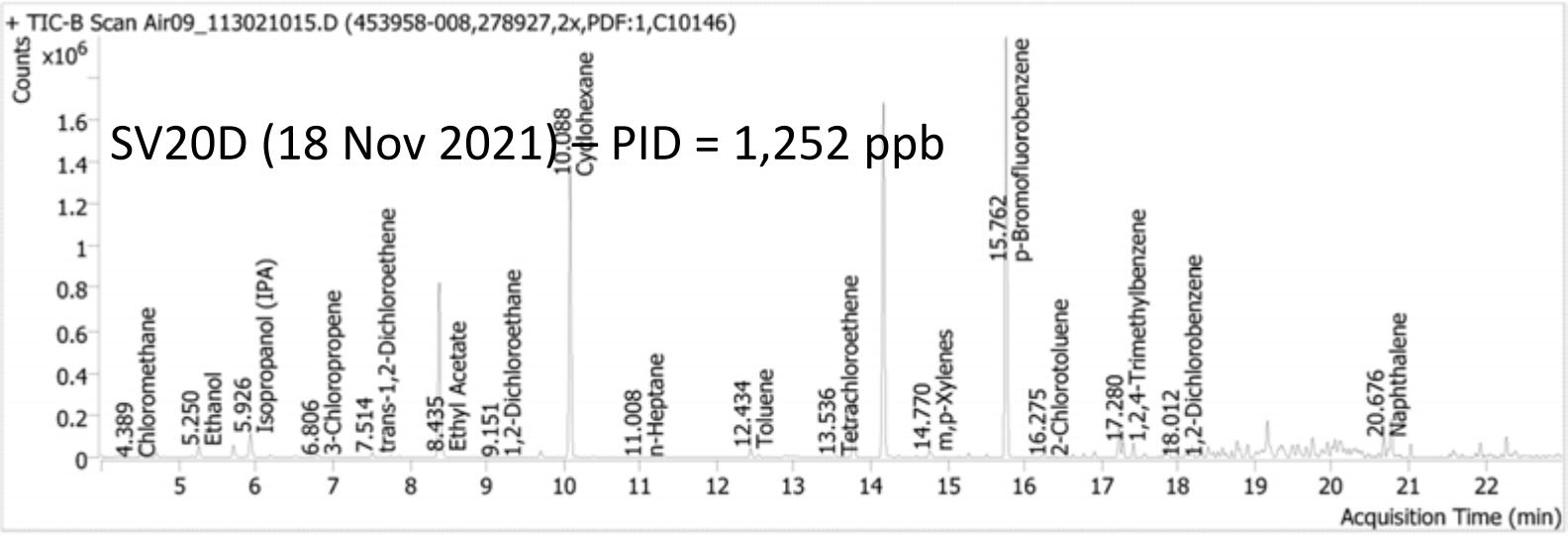

+ TIC-B Scan Air09_113021011.D (453958-004,278927,2x,PDF:1,C10664)
SV17D (18 Nov 2021) – PID = 3,501 ppb
Counts
x10^6
4.605 Vinyl Chloride
5.255 Ethanol
5.919 Isopropanol (IPA)
7.499 MTBE
8.422 Ethyl Acetate
9.301 1,1,1-Trichloroethane
10.076 Cyclohexane
11.001 n-Heptane
12.434 Toluene
13.536 Tetrachloroethene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


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


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

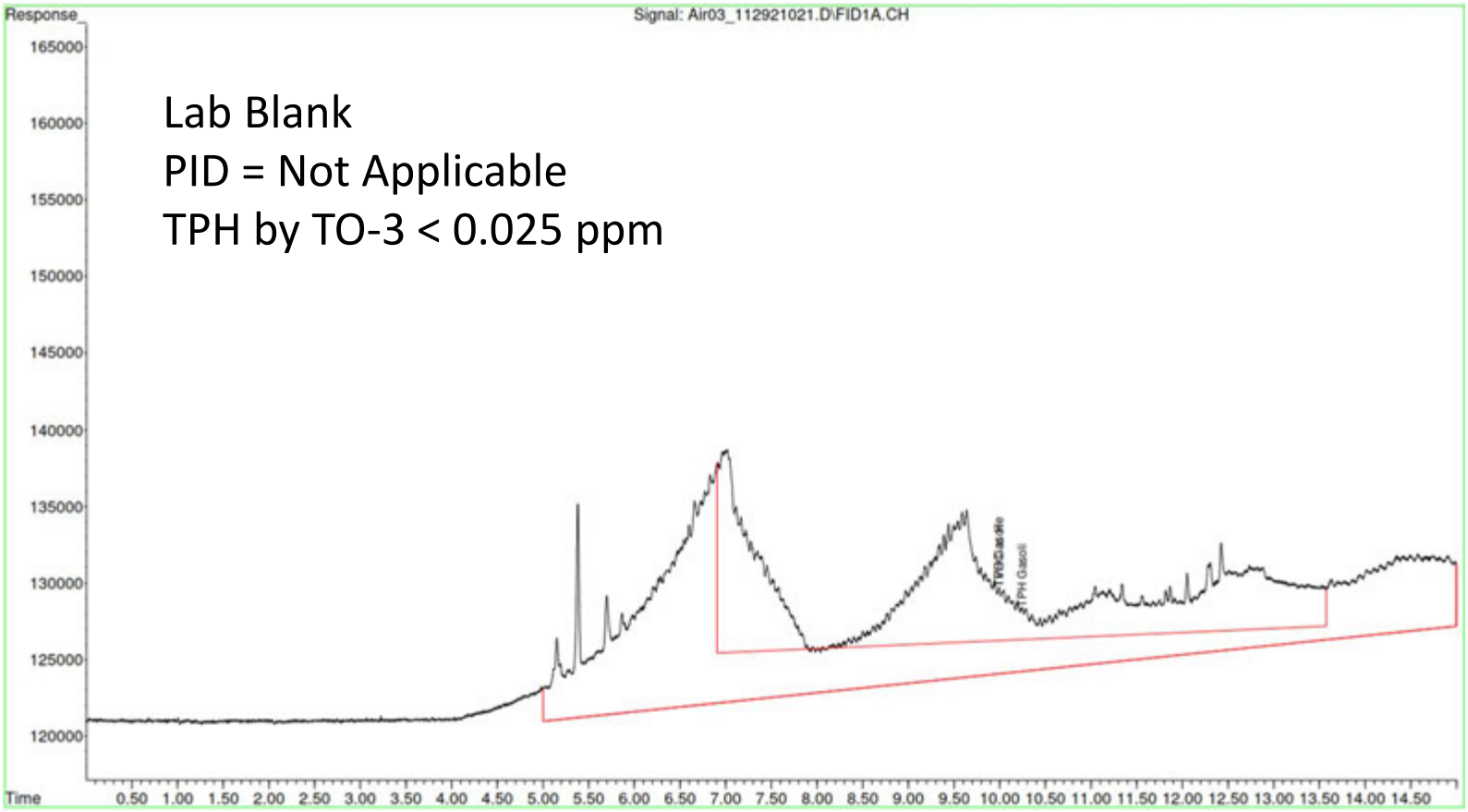

+ TIC-B Scan Air09_113021013.D (453958-006,278927,2x,PDF:1,C10672)
SV18D (18 Nov 2021) – PID = 4,467 ppb
Counts
x10^6
4.698 1,3-Butadiene
5.924 Isopropanol (IPA)
6.804 3-Chloropropene
7.506 trans-1,2-Dichloroethene
8.433 Ethyl Acetate
9.149 1,2-Dichloroethane
10.413 1,2-Dichloropropane
11.575 4-Methyl-2-Pentanone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

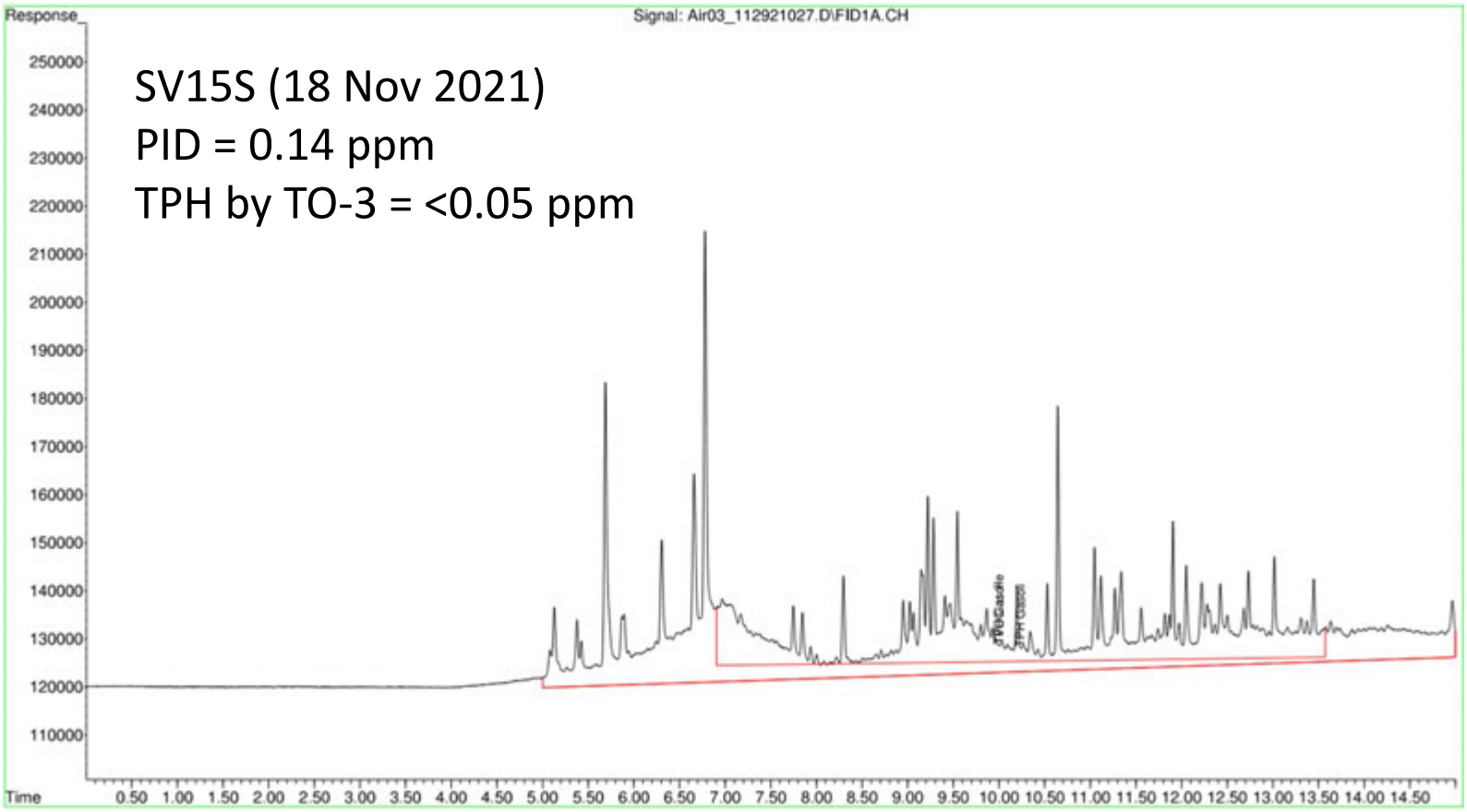

+ TIC-B Scan Air09_113021014.D (453958-007,278927,2x,PDF:1,C10318)
Counts
x10^6
SV20M (18 Nov 2021) – PID = 1,596 ppb
4.489 Freon 114
5.703 Acetone
6.519 Methylene Chloride
7.519 MTBE
8.431 Ethyl Acetate
10.086 Cyclohexane
10.731 Trichloroethene
11.556 4-Methyl-2-Pentanone
12.434 Toluene
13.538 Tetrachloroethene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

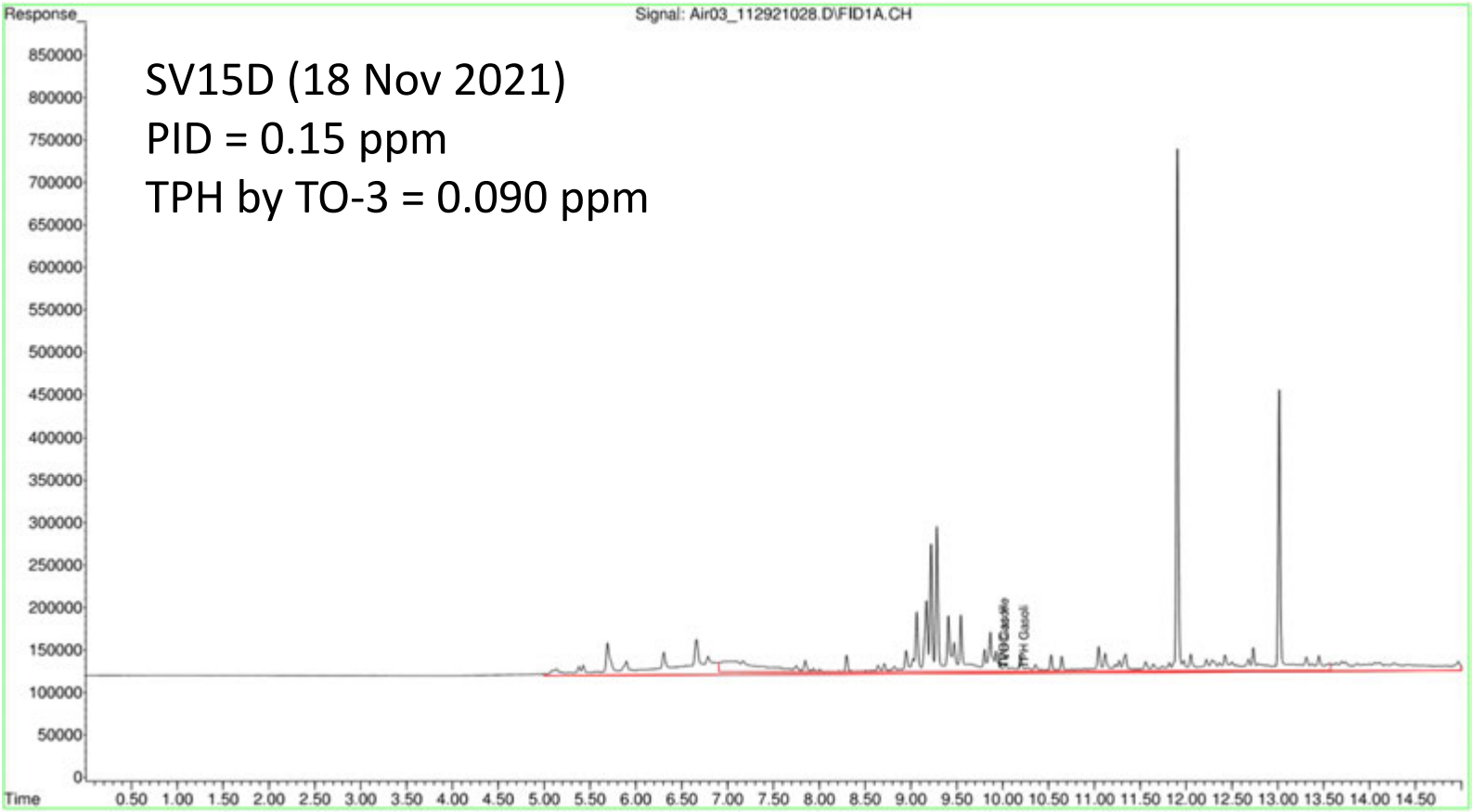

+ TIC-B Scan Air09_113021015.D (453958-008,278927,2x,PDF:1,C10146)
Counts
x10^6
SV20D (18 Nov 2021) – PID = 1,252 ppb
4.389 Chloromethane
5.250 Ethanol
5.926 Isopropanol (IPA)
6.806 3-Chloropropene
7.514 trans-1,2-Dichloroethene
8.435 Ethyl Acetate
9.151 1,2-Dichloroethane
10.088 Cyclohexane
11.008 n-Heptane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

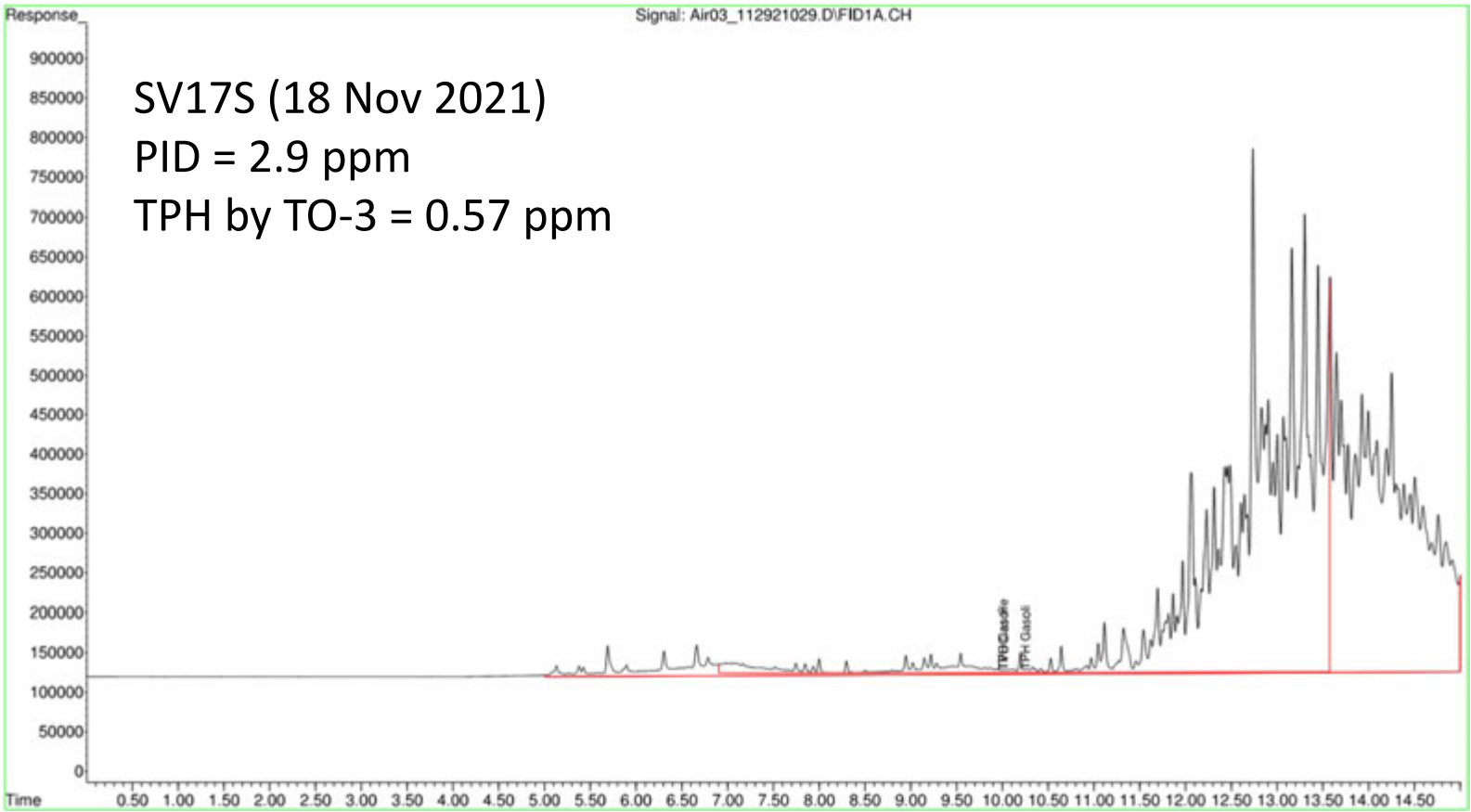
November 2021
Soil Vapor Samples

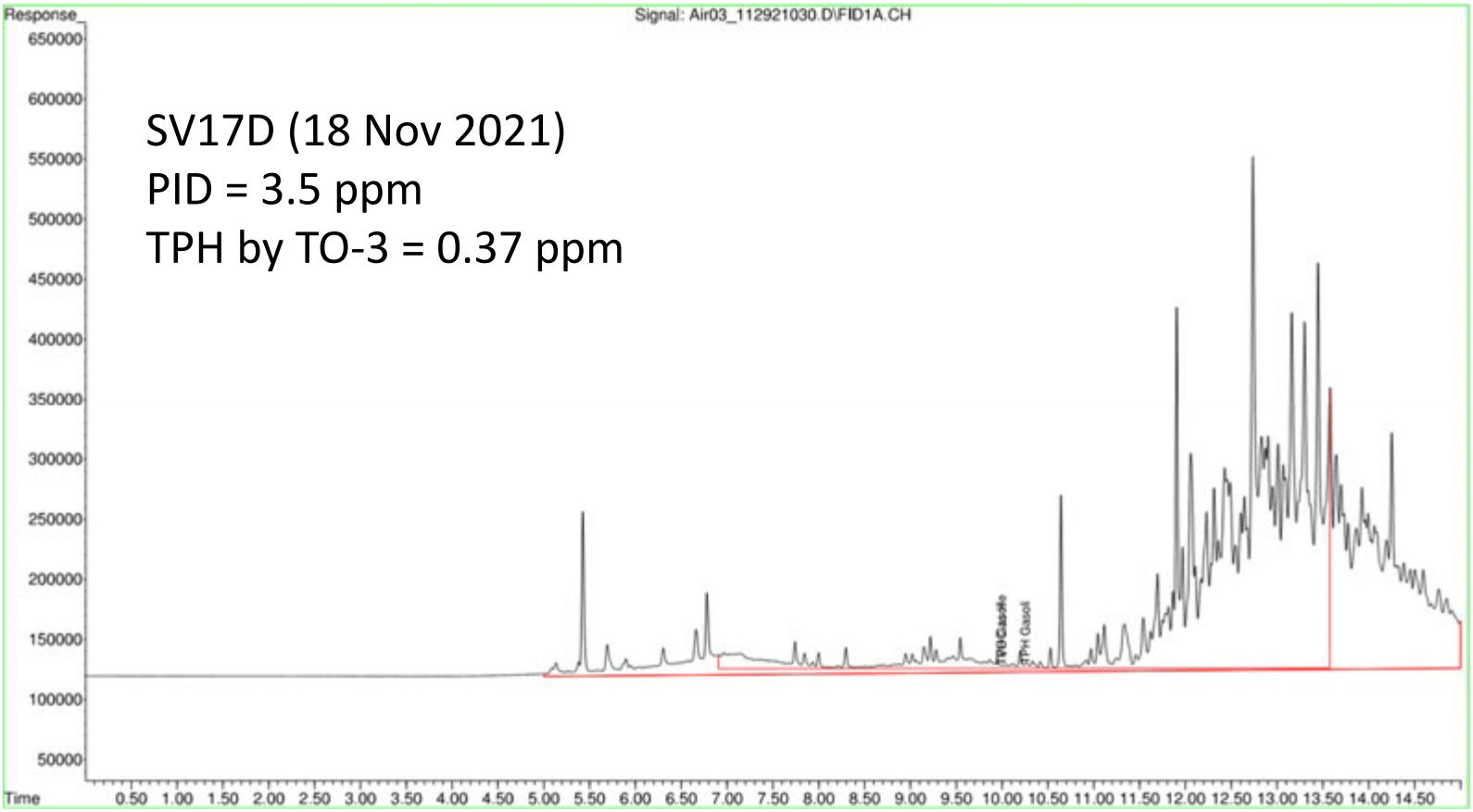
FID Chromatograms

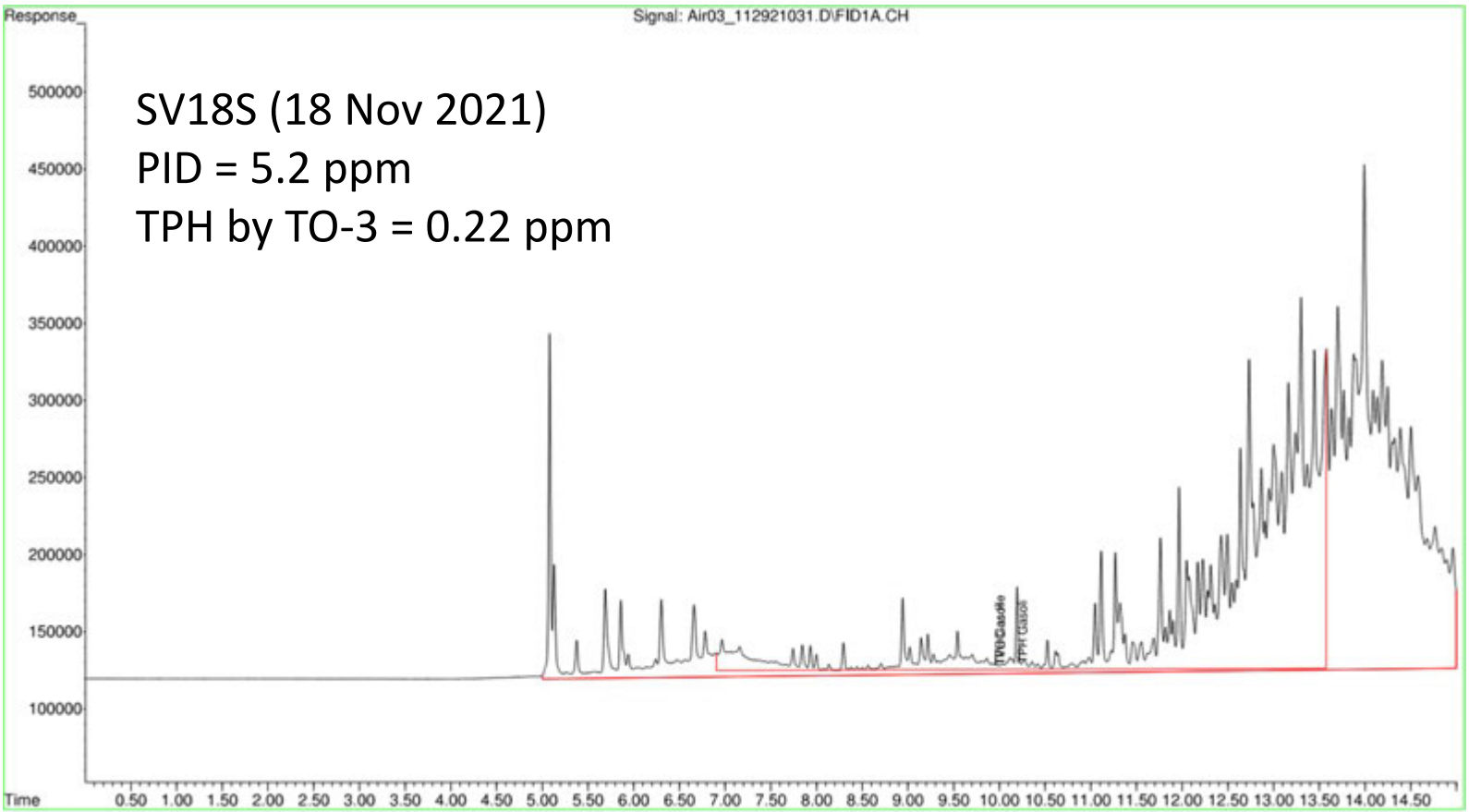

Signal: Air03_112921021.D\FID1A.CH
Response
Time
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm

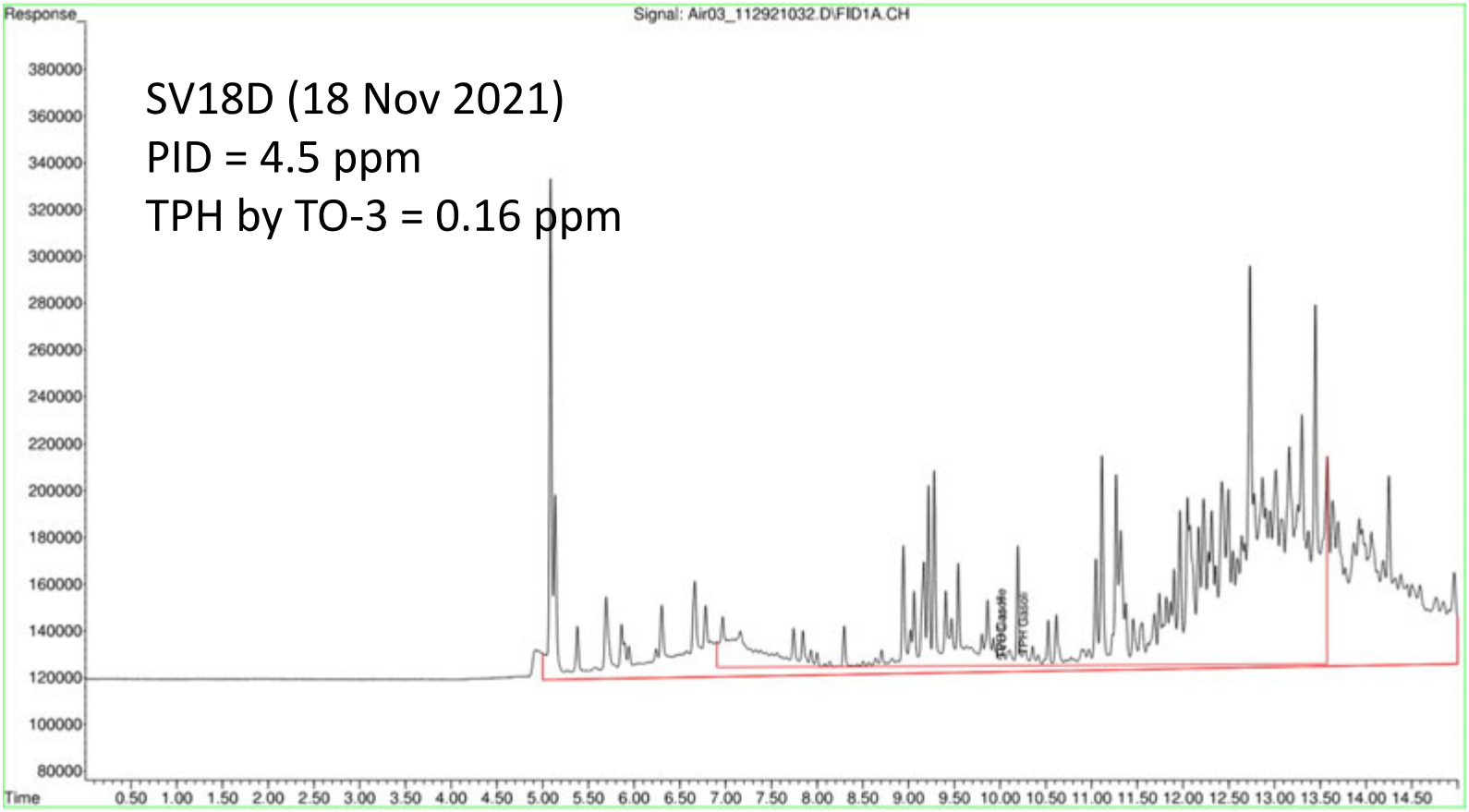

Signal: Air03_112921027.D\FID1A.CH
Response
Time
SV15S (18 Nov 2021)
PID = 0.14 ppm
TPH by TO-3 = <0.05 ppm

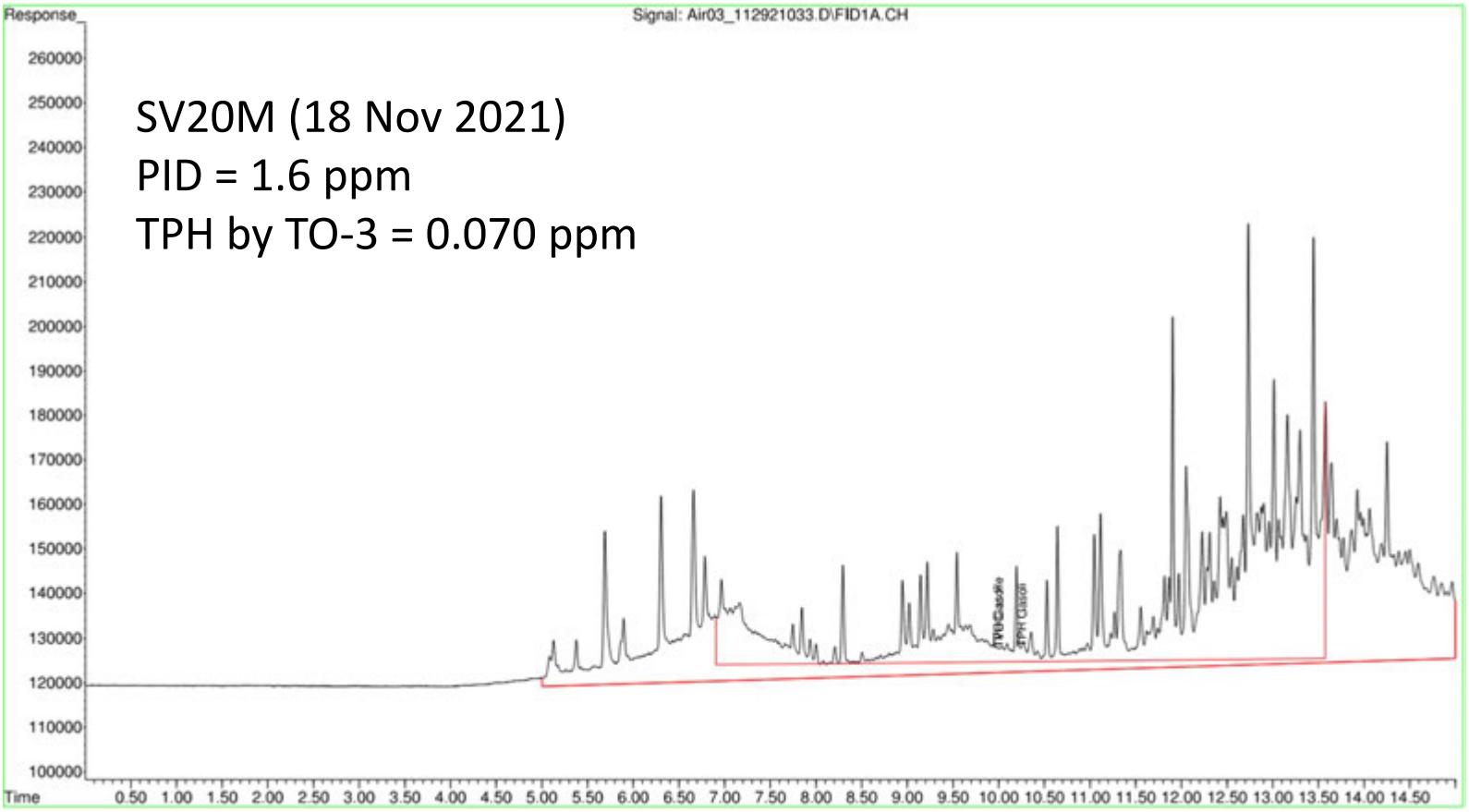

Signal: Air03_112921028.D\FID1A.CH
Response
Time
SV15D (18 Nov 2021)
PID = 0.15 ppm
TPH by TO-3 = 0.090 ppm
TPH Gasoline
TPH Gasoli

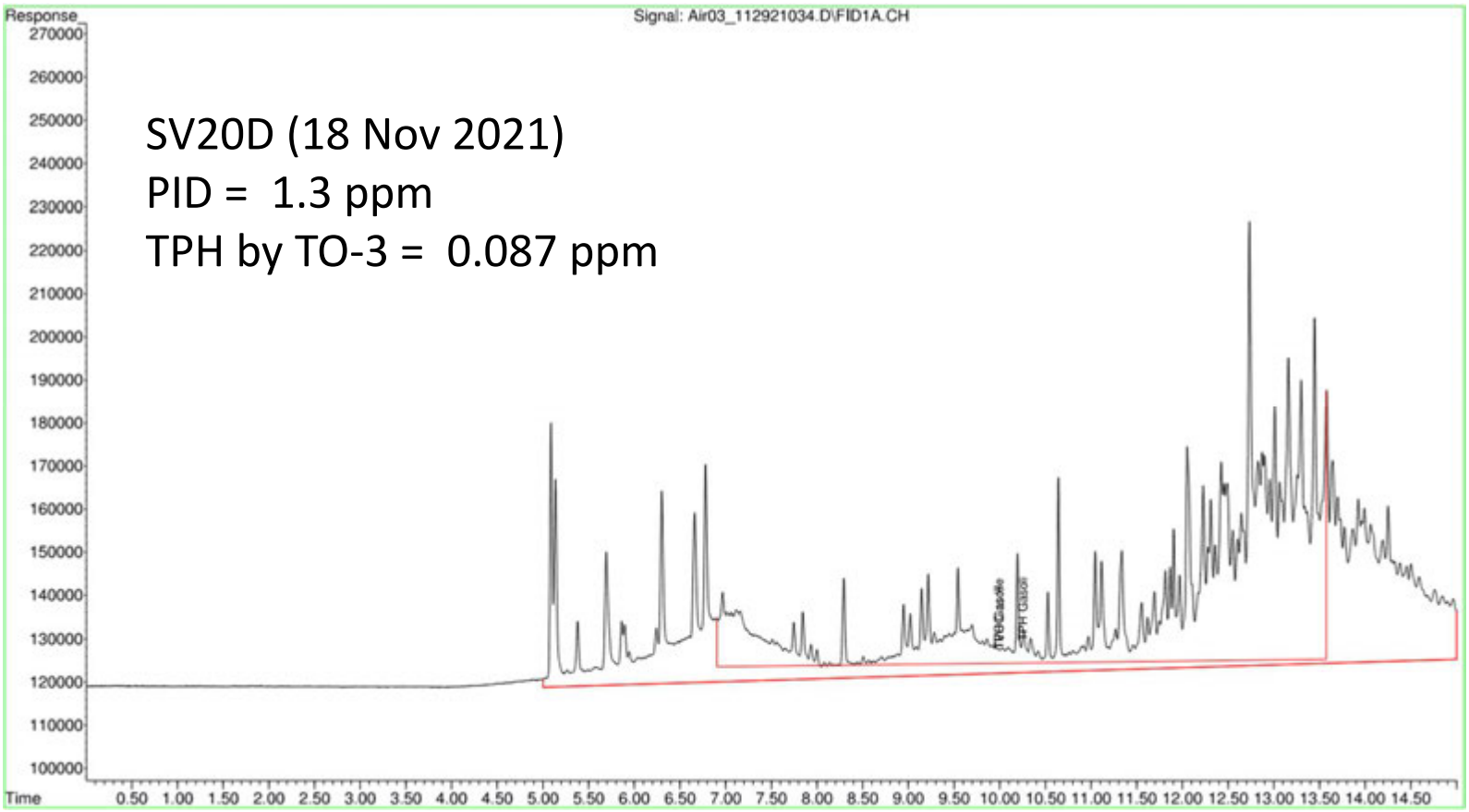

Signal: Air03_112921029.D\FID1A.CH
Response
Time
SV17S (18 Nov 2021)
PID = 2.9 ppm
TPH by TO-3 = 0.57 ppm
TPH Gasoline
TPH Gasoli


Signal: Air03_112921030.D\FID1A.CH
Response
Time
SV17D (18 Nov 2021)
PID = 3.5 ppm
TPH by TO-3 = 0.37 ppm
TPH Gasoline
TPH Gasol


Signal: Air03_112921031.D\FID1A.CH
Response
Time
SV18S (18 Nov 2021)
PID = 5.2 ppm
TPH by TO-3 = 0.22 ppm
TPH Gasoline
TPH Gasol

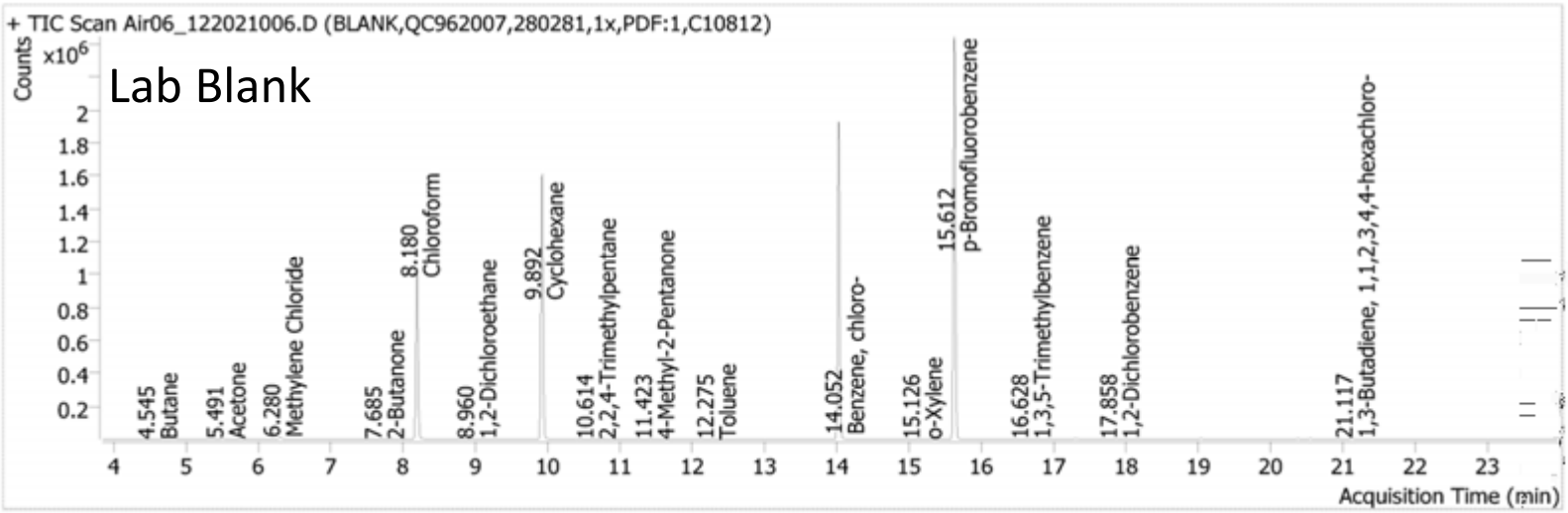

Signal: Air03_112921032.D\FID1A.CH
Response
Time
SV18D (18 Nov 2021)
PID = 4.5 ppm
TPH by TO-3 = 0.16 ppm

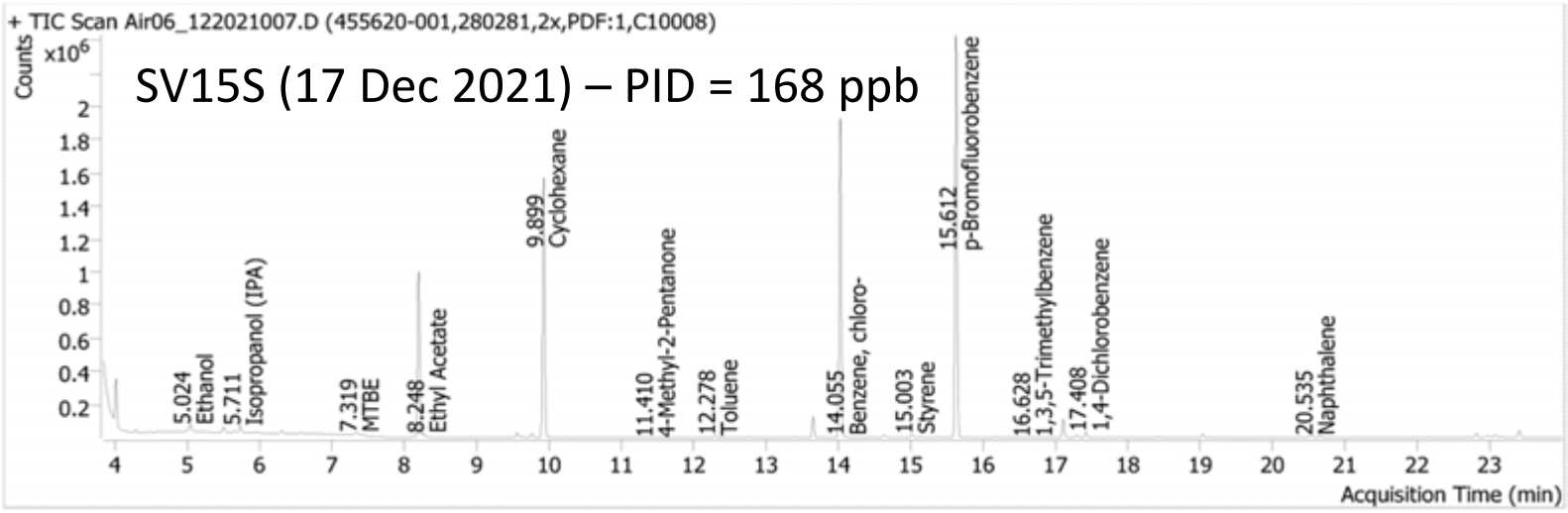

Signal: Air03_112921033.D\FID1A.CH
Response
Time
SV20M (18 Nov 2021)
PID = 1.6 ppm
TPH by TO-3 = 0.070 ppm

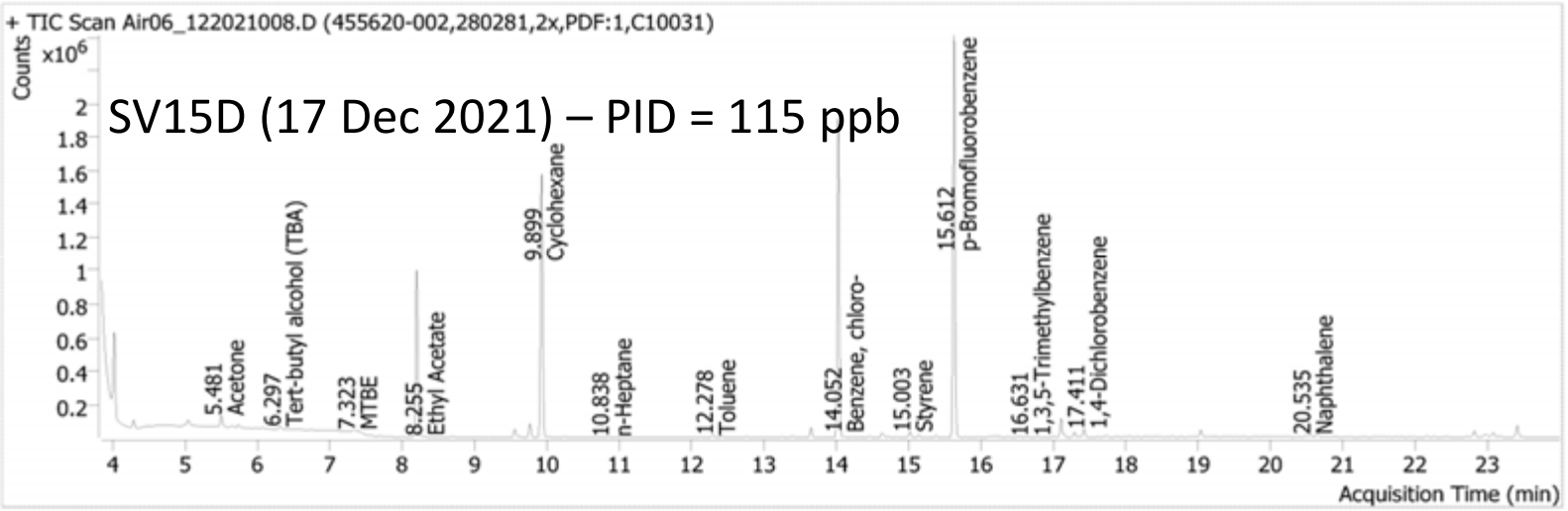

Signal: Air03_112921034.D\FID1A.CH
Response
Time
SV20D (18 Nov 2021)
PID = 1.3 ppm
TPH by TO-3 = 0.087 ppm

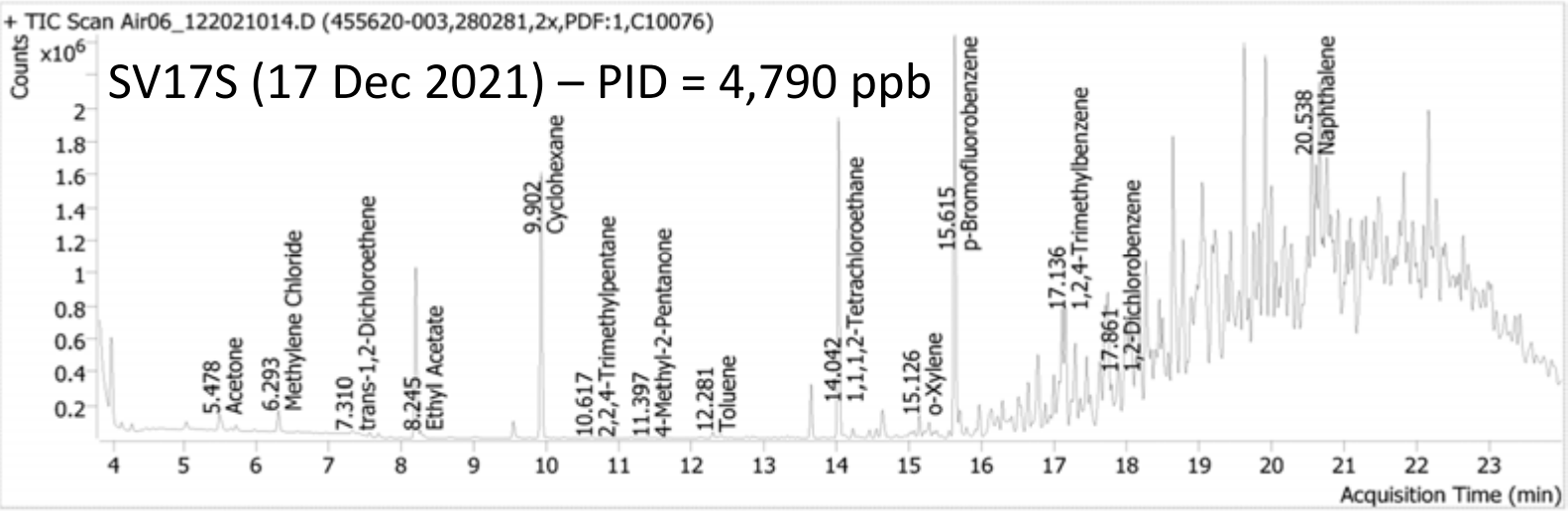
December 2021
Soil Vapor Samples

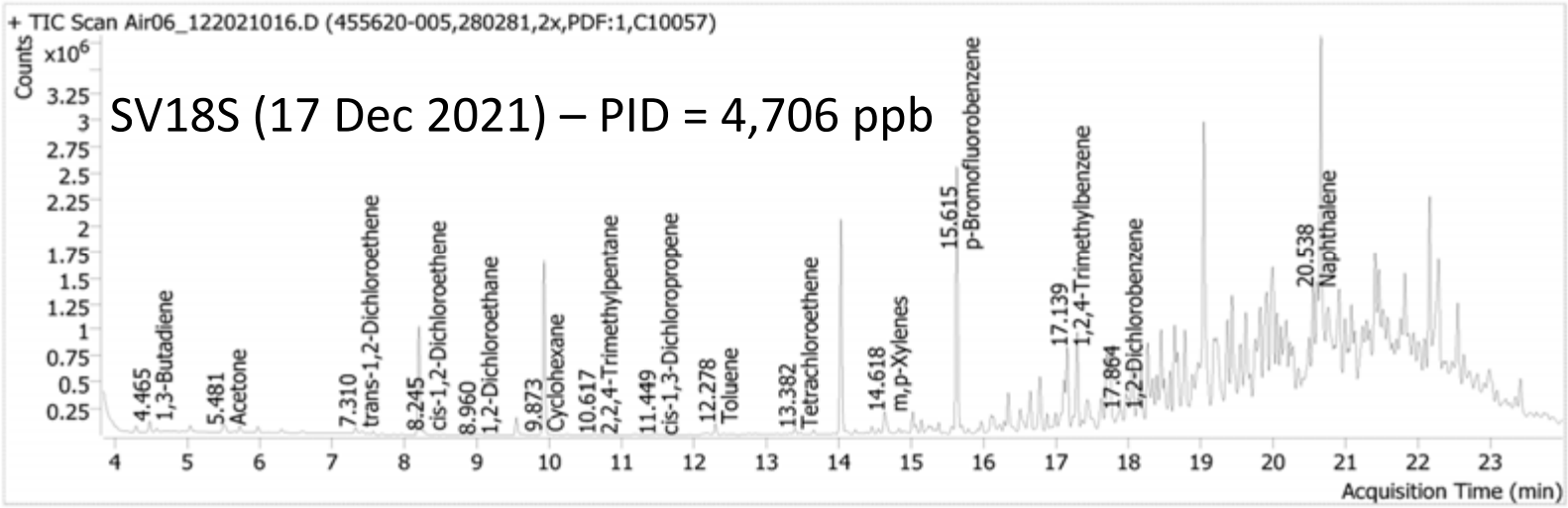
Mass Spec Chromatograms

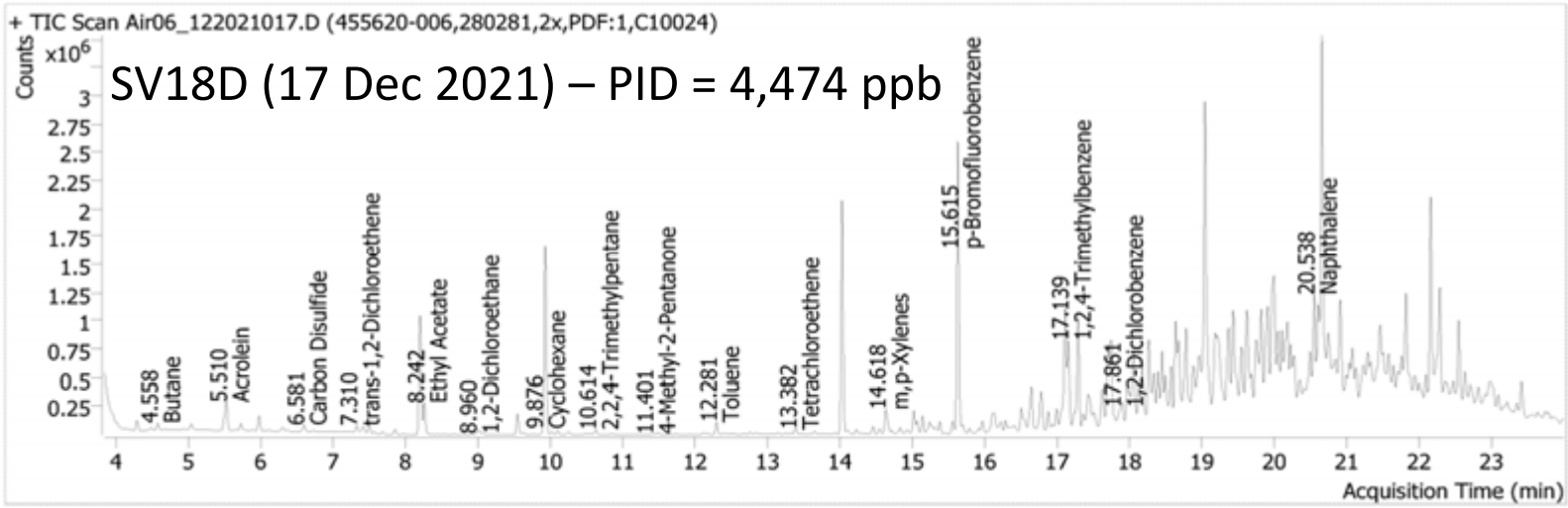

+ TIC Scan Air06_122021006.D (BLANK,QC962007,280281,1x,PDF:1,C10812)
Lab Blank
Counts
x10^6
4.545 Butane
5.491 Acetone
6.280 Methylene Chloride
7.685 2-Butanone
8.180 Chloroform
8.960 1,2-Dichloroethane
9.892 Cyclohexane
10.614 2,2,4-Trimethylpentane
11.423 4-Methyl-2-Pentanone
12.275 Toluene
14.052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

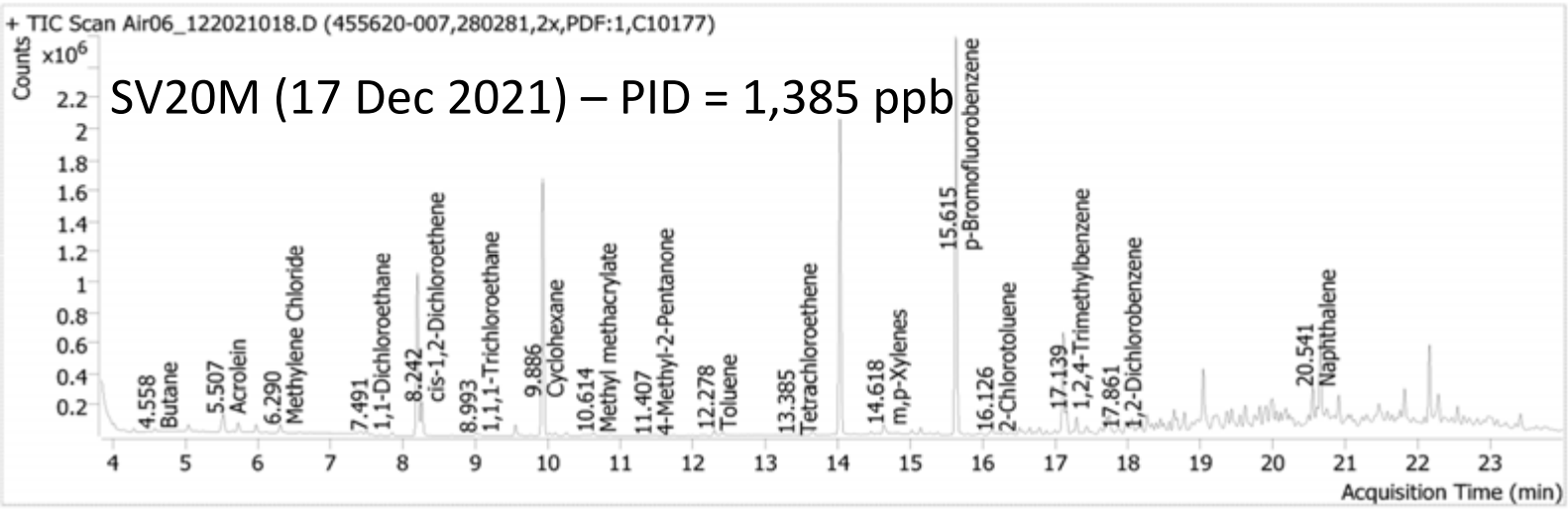

+ TIC Scan Air06_122021007.D (455620-001,280281,2x,PDF:1,C10008)
SV15S (17 Dec 2021) – PID = 168 ppb
Counts
x10^6
5.024 Ethanol
5.711 Isopropanol (IPA)
7.319 MTBE
8.248 Ethyl Acetate
9.899 Cyclohexane
11.410 4-Methyl-2-Pentanone
12.278 Toluene
14.055 Benzene, chloro-
15.003 Styrene
15.612 p-Bromofluorobenzene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

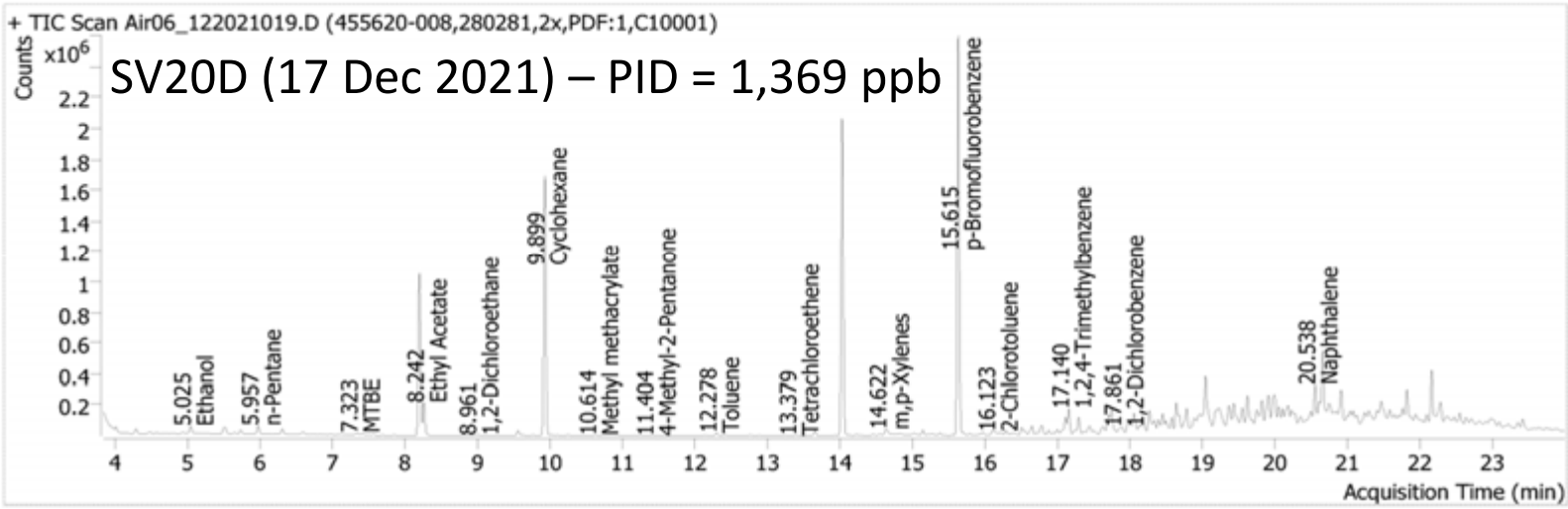

+ TIC Scan Air06_122021008.D (455620-002,280281,2x,PDF:1,C10031)
SV15D (17 Dec 2021) – PID = 115 ppb
Counts
x10^6
5.481 Acetone
6.297 Tert-butyl alcohol (TBA)
7.323 MTBE
8.255 Ethyl Acetate
9.899 Cyclohexane
10.838 n-Heptane
12.278 Toluene
14.052 Benzene, chloro-
15.003 Styrene
15.612 p-Bromofluorobenzene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

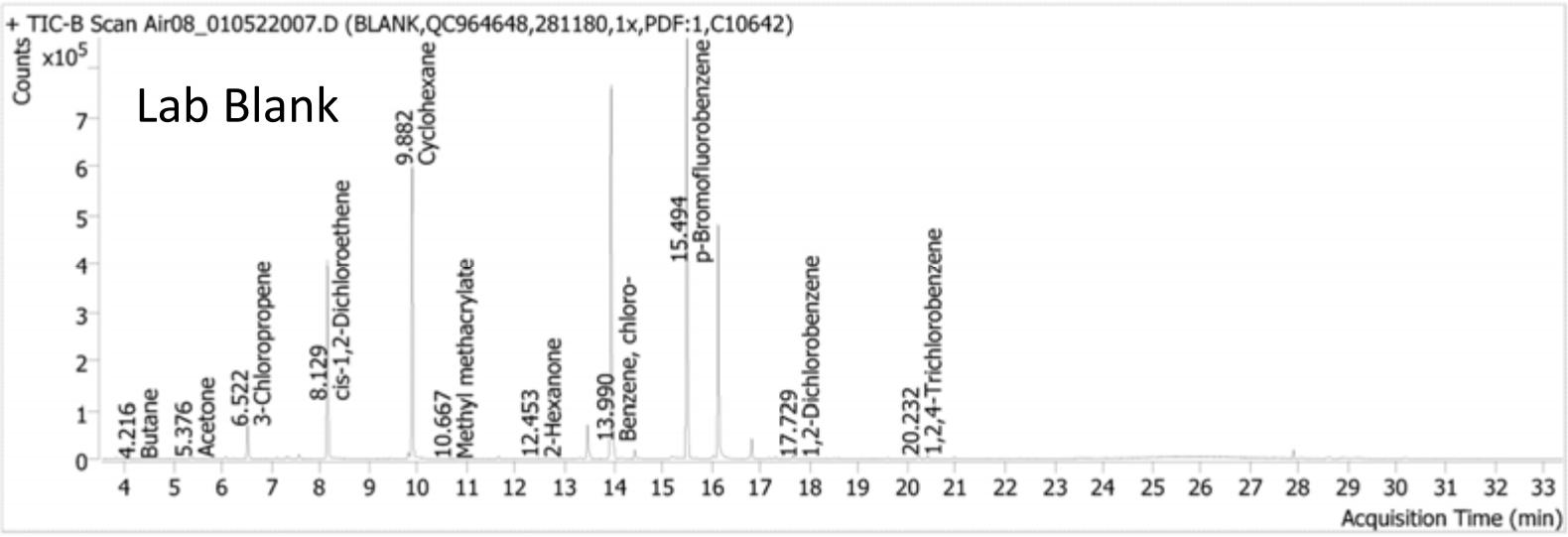

+ TIC Scan Air06_122021014.D (455620-003,280281,2x,PDF:1,C10076)
SV17S (17 Dec 2021) – PID = 4,790 ppb
Counts
x10^6
5.478 Acetone
6.293 Methylene Chloride
7.310 trans-1,2-Dichloroethene
8.245 Ethyl Acetate
9.902 Cyclohexane
10.617 2,2,4-Trimethylpentane
11.397 4-Methyl-2-Pentanone
12.281 Toluene
14.042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

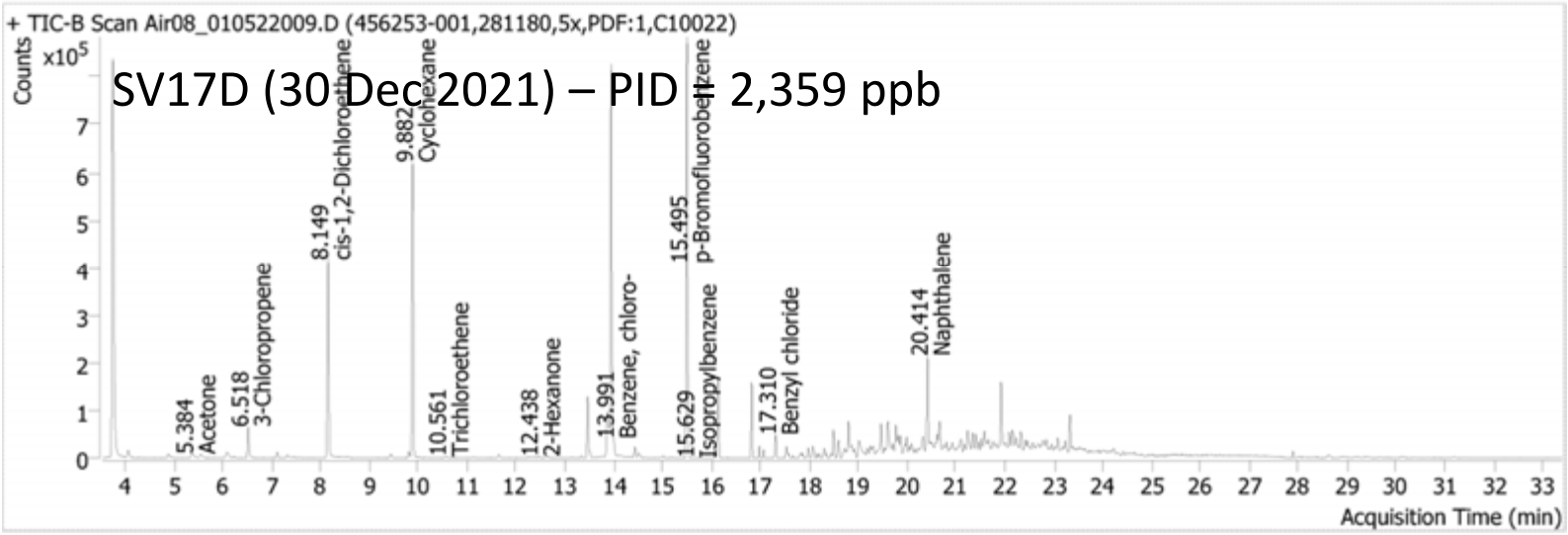

+ TIC Scan Air06_122021016.D (455620-005,280281,2x,PDF:1,C10057)
SV18S (17 Dec 2021) – PID = 4,706 ppb
Counts
x10^6
4.465 1,3-Butadiene
5.481 Acetone
7.310 trans-1,2-Dichloroethene
8.245 cis-1,2-Dichloroethene
8.960 1,2-Dichloroethane
9.873 Cyclohexane
10.617 2,2,4-Trimethylpentane
11.449 cis-1,3-Dichloropropene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


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


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

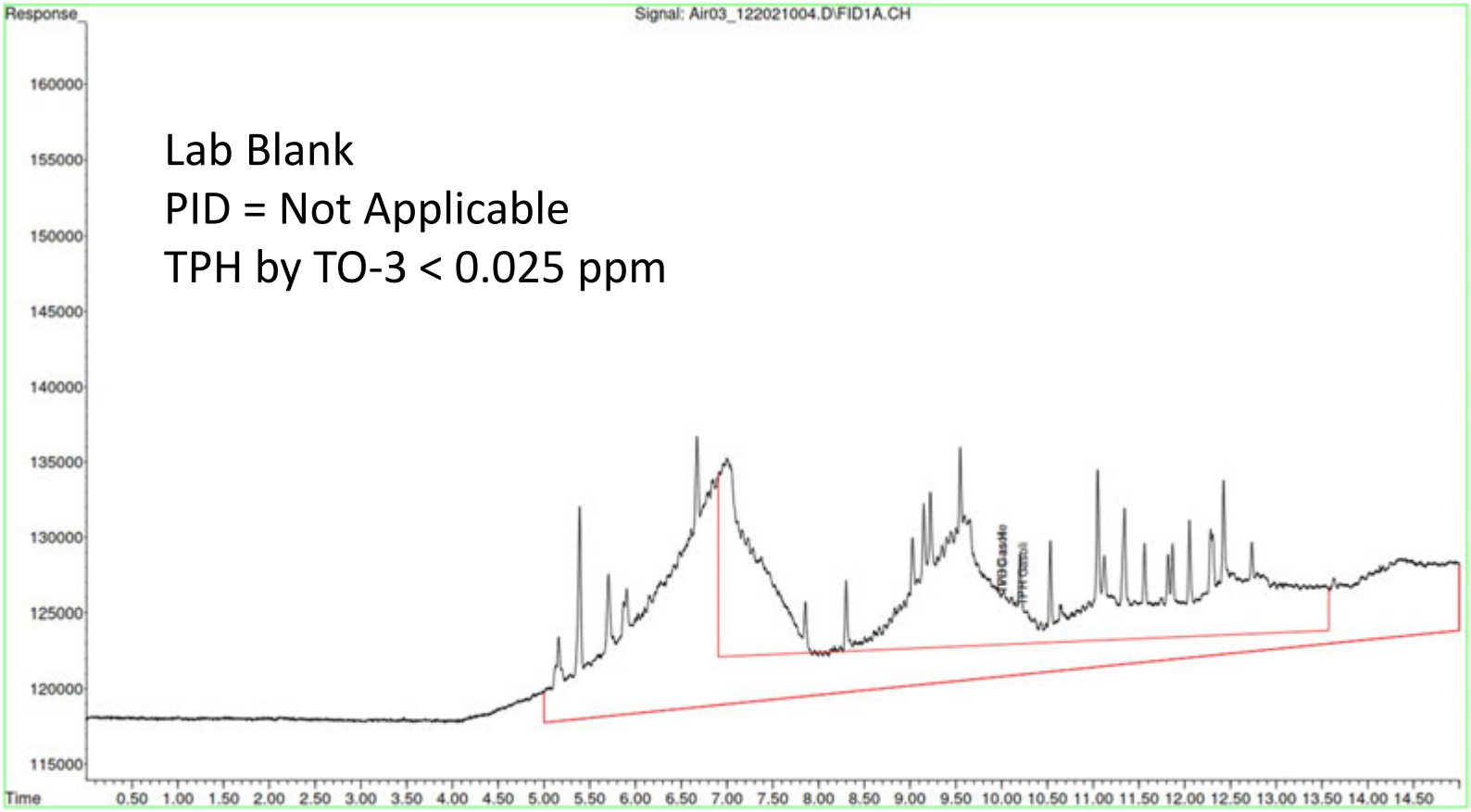

+ TIC Scan Air06_122021019.D (455620-008,280281,2x,PDF:1,C10001)
SV20D (17 Dec 2021) – PID = 1,369 ppb
Counts
x10^6
5.025 Ethanol
5.957 n-Pentane
7.323 MTBE
8.242 Ethyl Acetate
8.961 1,2-Dichloroethane
9.899 Cyclohexane
10.614 Methyl methacrylate
11.404 4-Methyl-2-Pentanone
12.278 Toluene
13.379 Tetrachloroethene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

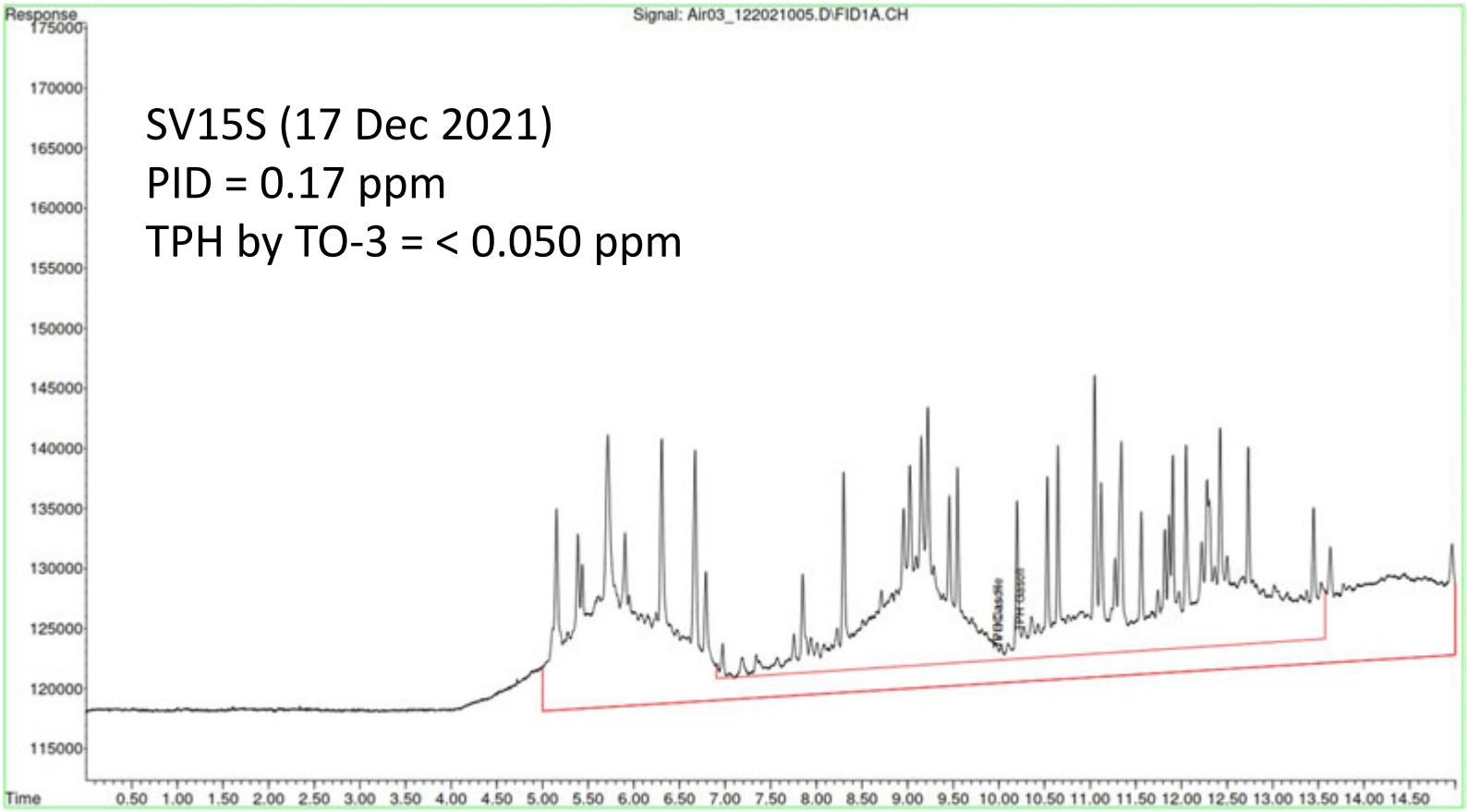

+ TIC-B Scan Air08_010522007.D (BLANK,QC964648,281180,1x,PDF:1,C10642)
Counts
x10^5
Lab Blank
4.216 Butane
5.376 Acetone
6.522 3-Chloropropene
8.129 cis-1,2-Dichloroethene
9.882 Cyclohexane
10.667 Methyl methacrylate
12.453 2-Hexanone
13.990 Benzene, chloro-
15.494 p-Bromofluorobenzene
17.729 1,2-Dichlorobenzene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

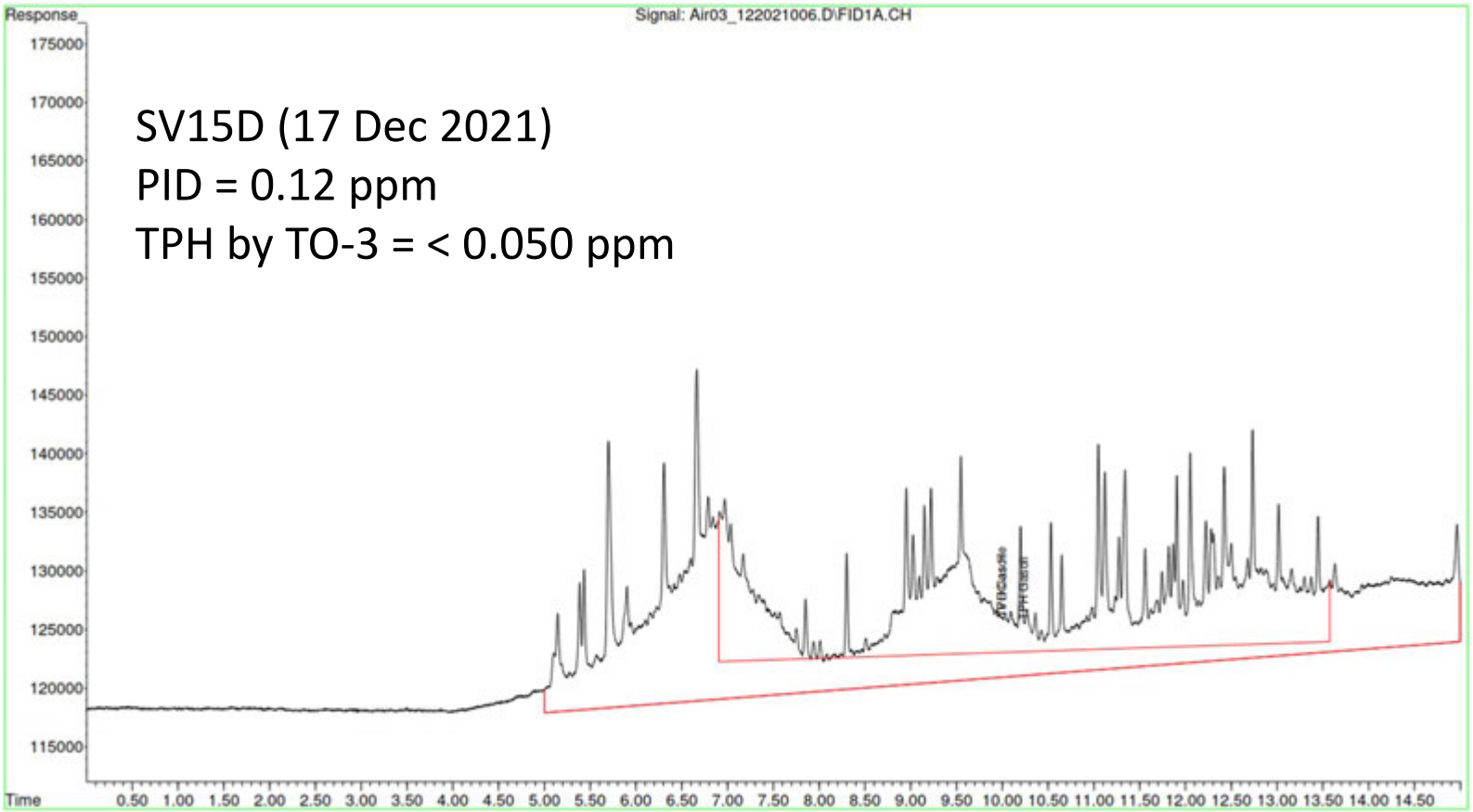

+ TIC-B Scan Air08_010522009.D (456253-001,281180,5x,PDF:1,C10022)
Counts
x10^5
SV17D (30 Dec 2021) – PID = 2,359 ppb
5.384 Acetone
6.518 3-Chloropropene
8.149 cis-1,2-Dichloroethene
9.882 Cyclohexane
10.561 Trichloroethene
12.438 2-Hexanone
13.991 Benzene, chloro-
15.495 p-Bromofluorobenzene
15.629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

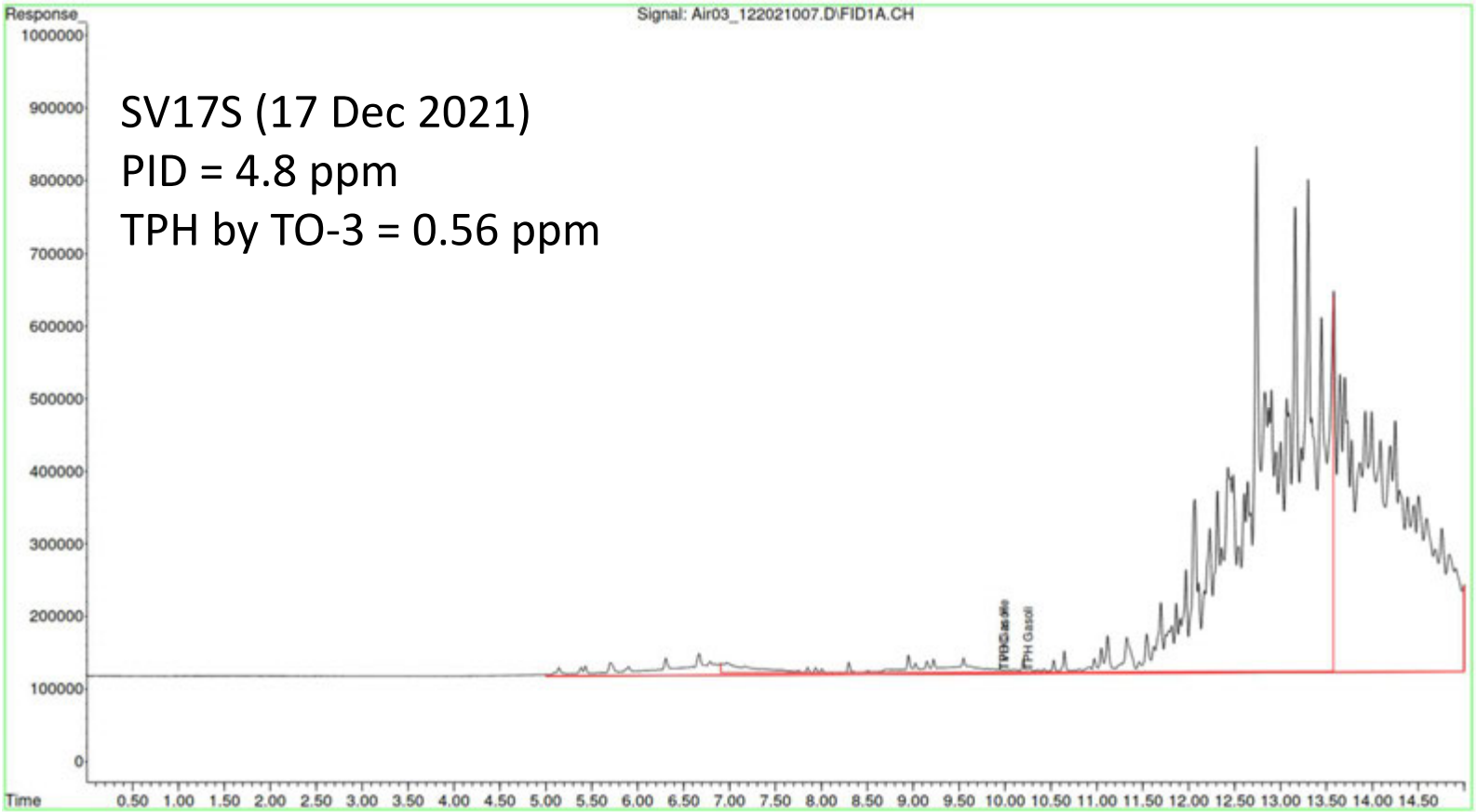
December 2021
Soil Vapor Samples

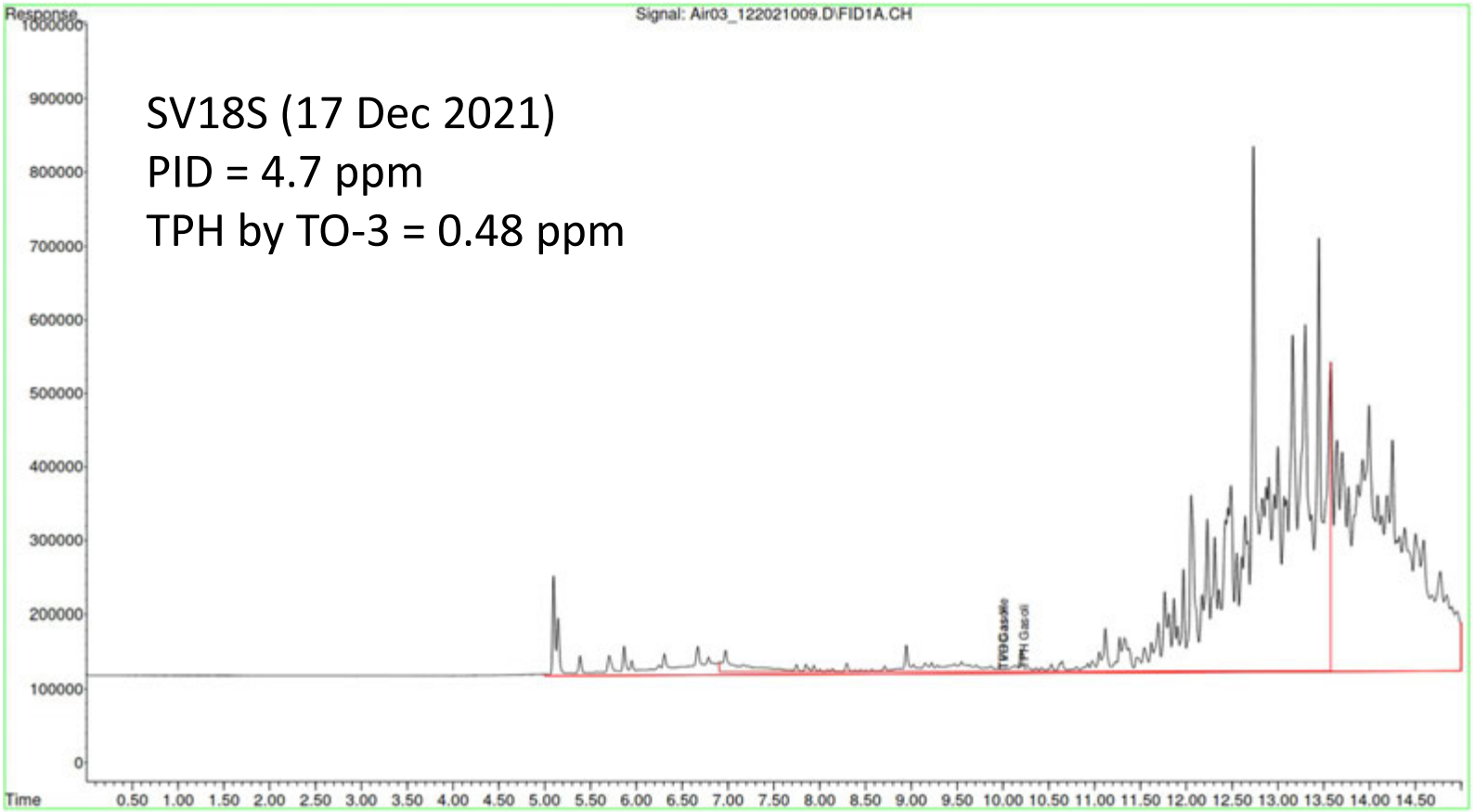
FID Chromatograms

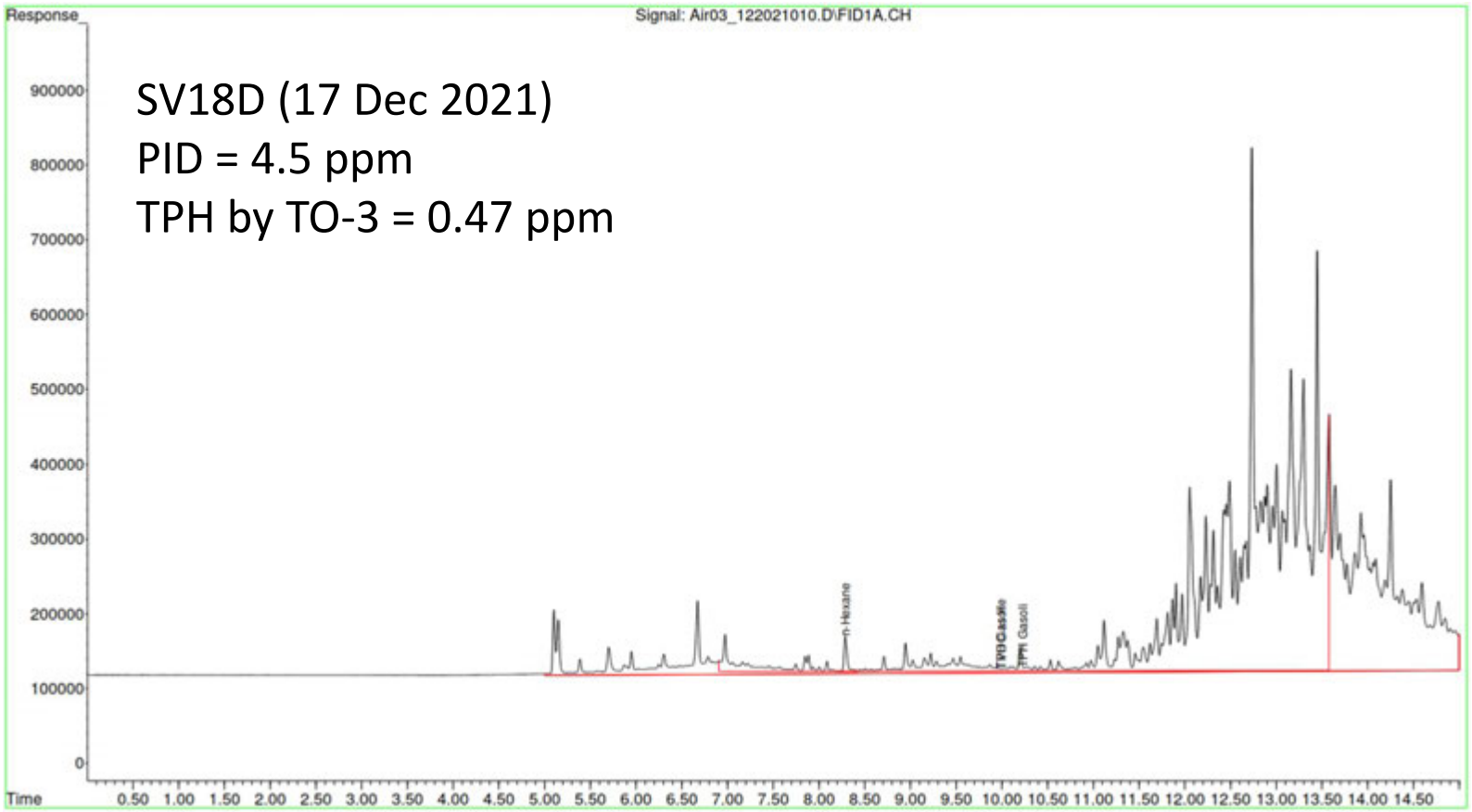

Signal: Air03_122021004.D\FID1A.CH
Response
Time
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm

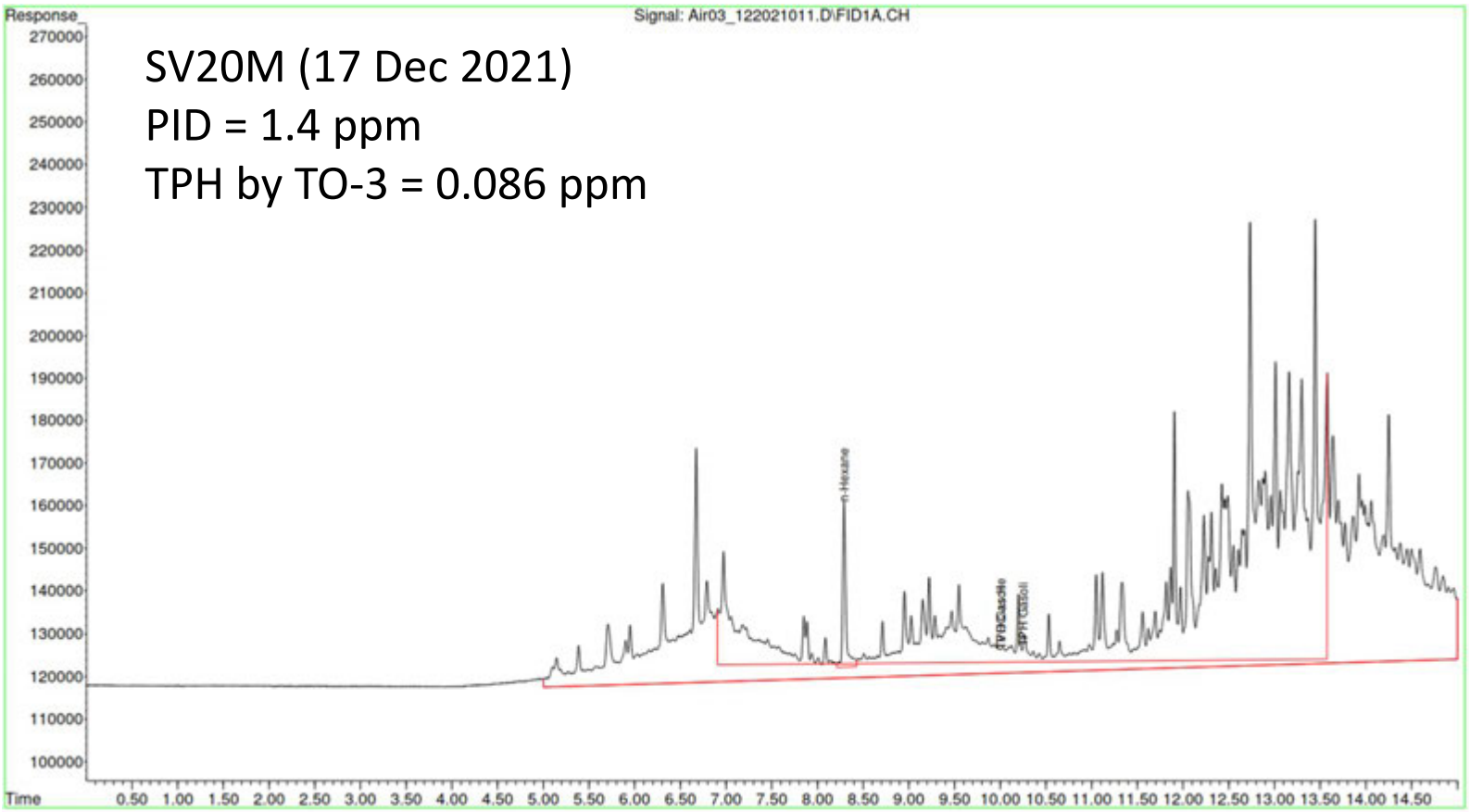

Signal: Air03_122021005.D\FID1A.CH
Response
Time
SV15S (17 Dec 2021)
PID = 0.17 ppm
TPH by TO-3 = < 0.050 ppm

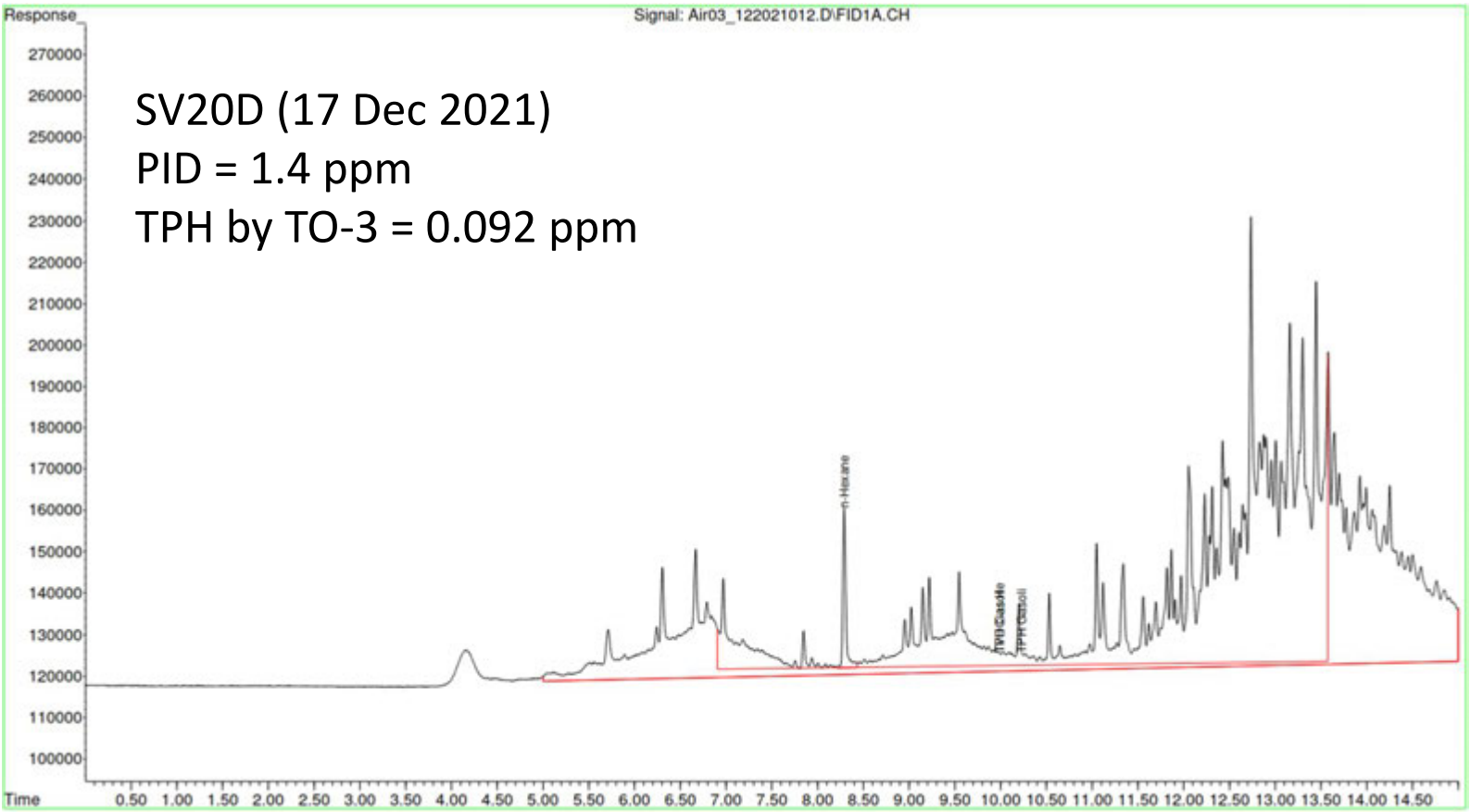

Signal: Air03_122021006.D\FID1A.CH
Response
Time
SV15D (17 Dec 2021)
PID = 0.12 ppm
TPH by TO-3 = < 0.050 ppm

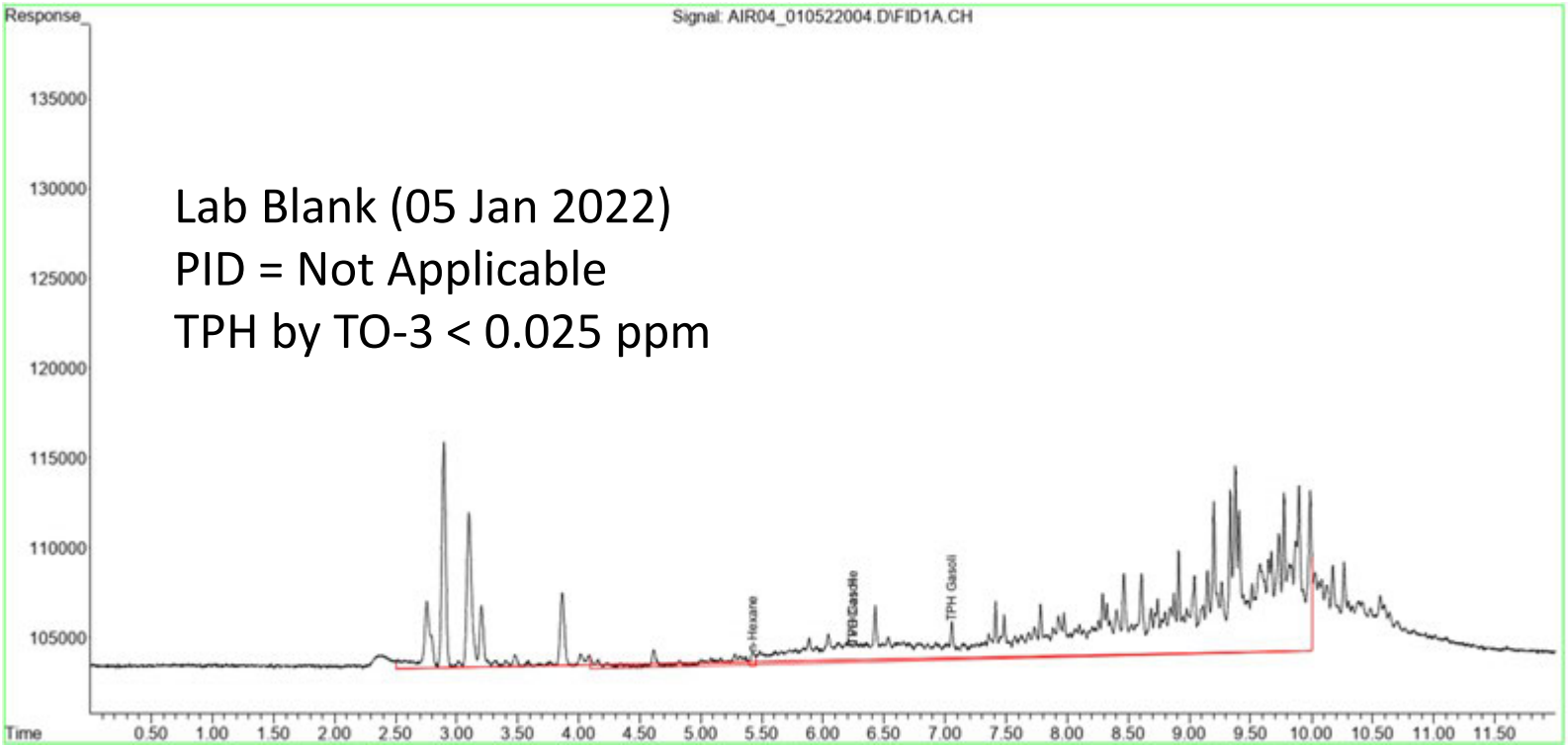

Signal: Air03_122021007.D\FID1A.CH
Response
Time
SV17S (17 Dec 2021)
PID = 4.8 ppm
TPH by TO-3 = 0.56 ppm
TPH Gasoline
TPH Gasoil

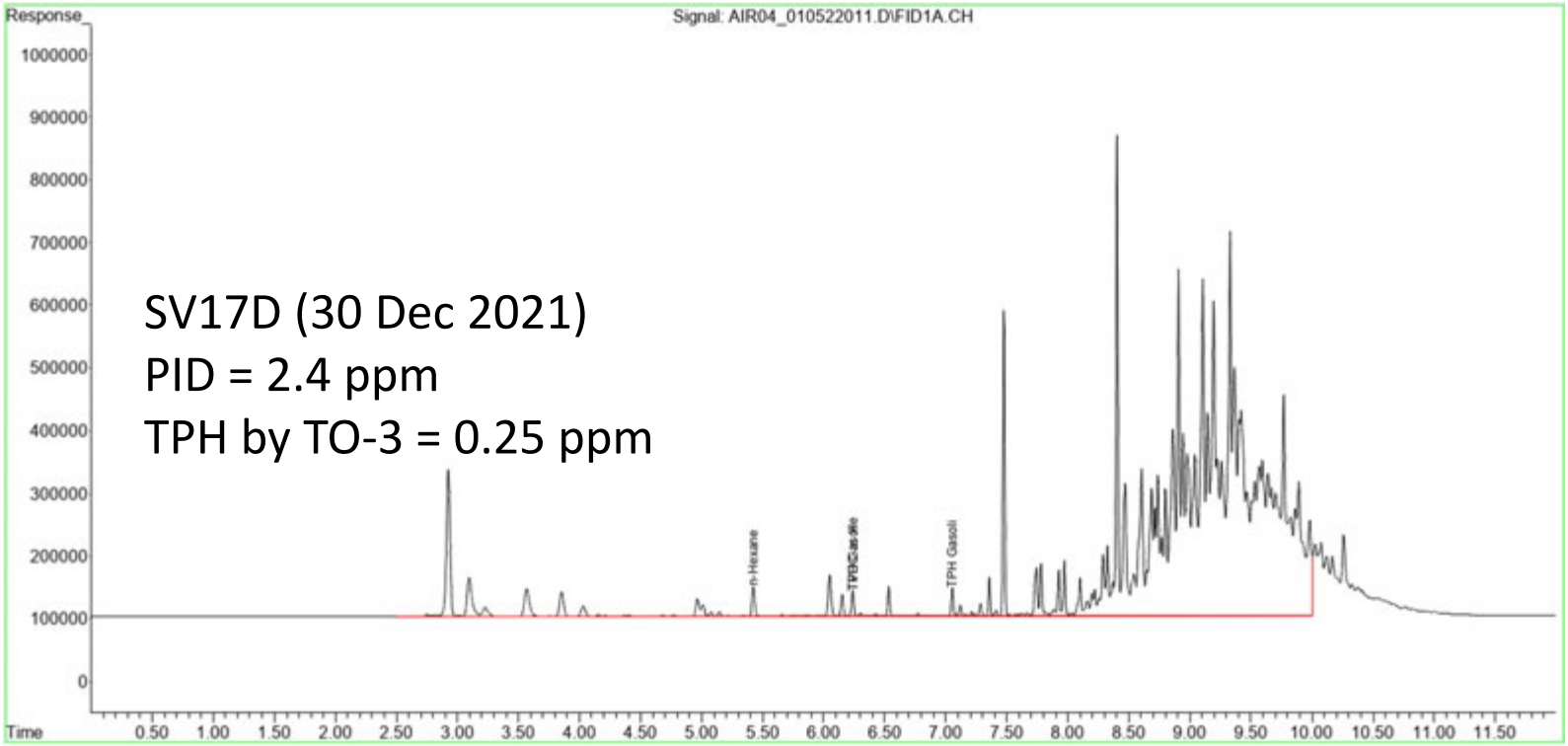

Signal: Air03_122021009.D\FID1A.CH
Response
Time
SV18S (17 Dec 2021)
PID = 4.7 ppm
TPH by TO-3 = 0.48 ppm
TPH Gasoline
TPH Gasoil


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


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

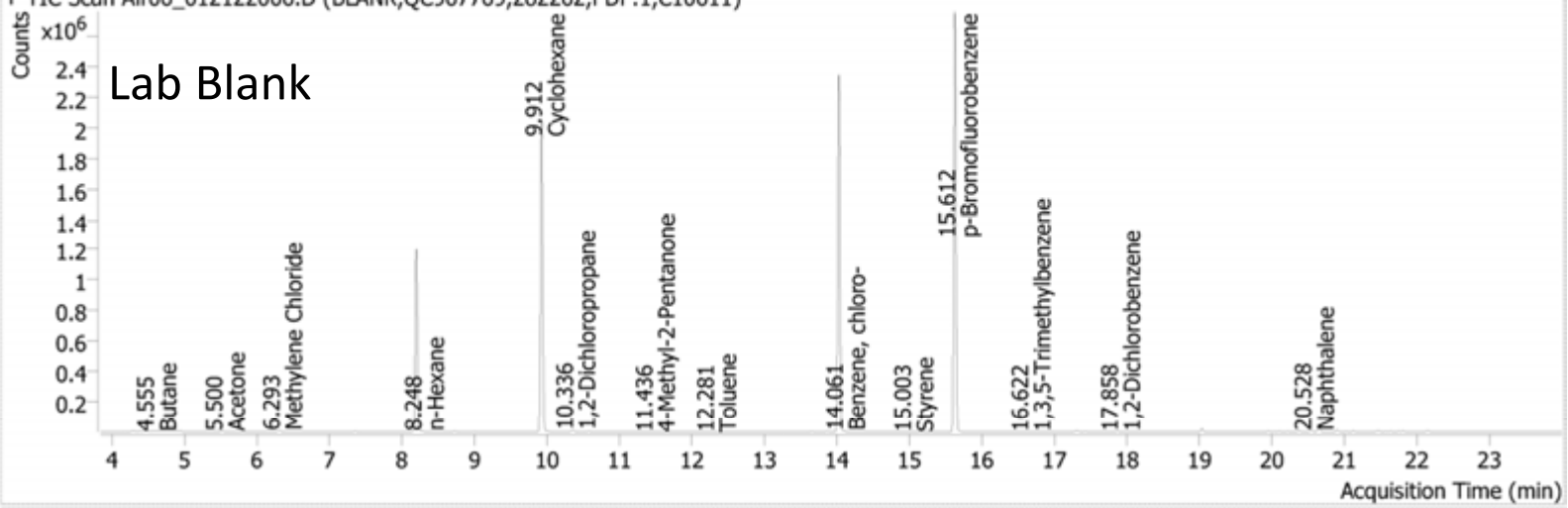

Signal: Air03_122021012.D\FID1A.CH
Response
Time
n-Hexane
SV20D (17 Dec 2021)
PID = 1.4 ppm
TPH by TO-3 = 0.092 ppm

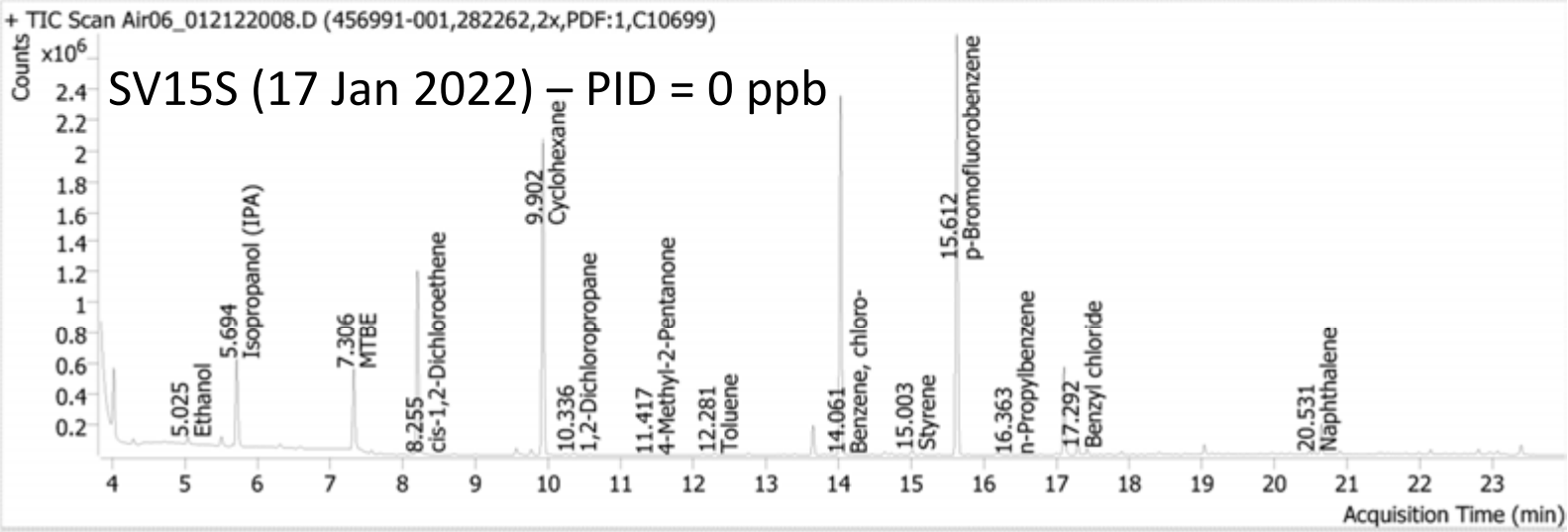

Signal: AIR04_010522004.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
Lab Blank (05 Jan 2022)
PID = Not Applicable
TPH by TO-3 < 0.025 ppm

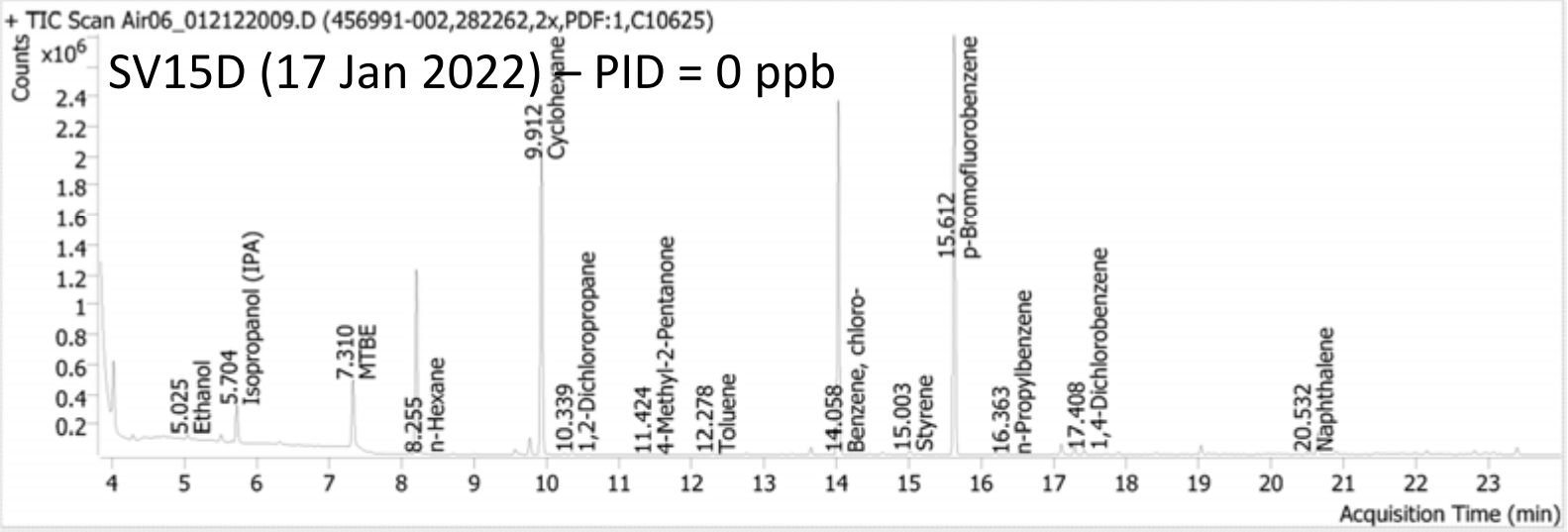

Signal: AIR04_010522011.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
SV17D (30 Dec 2021)
PID = 2.4 ppm
TPH by TO-3 = 0.25 ppm

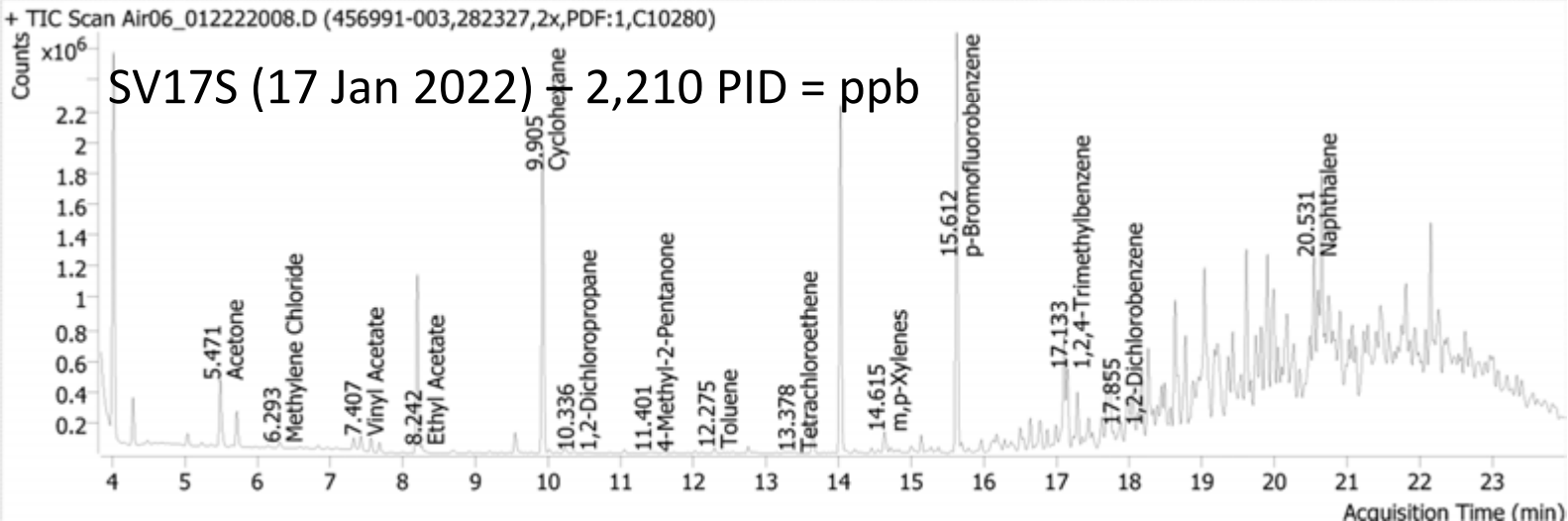
January 2022
Soil Vapor Samples

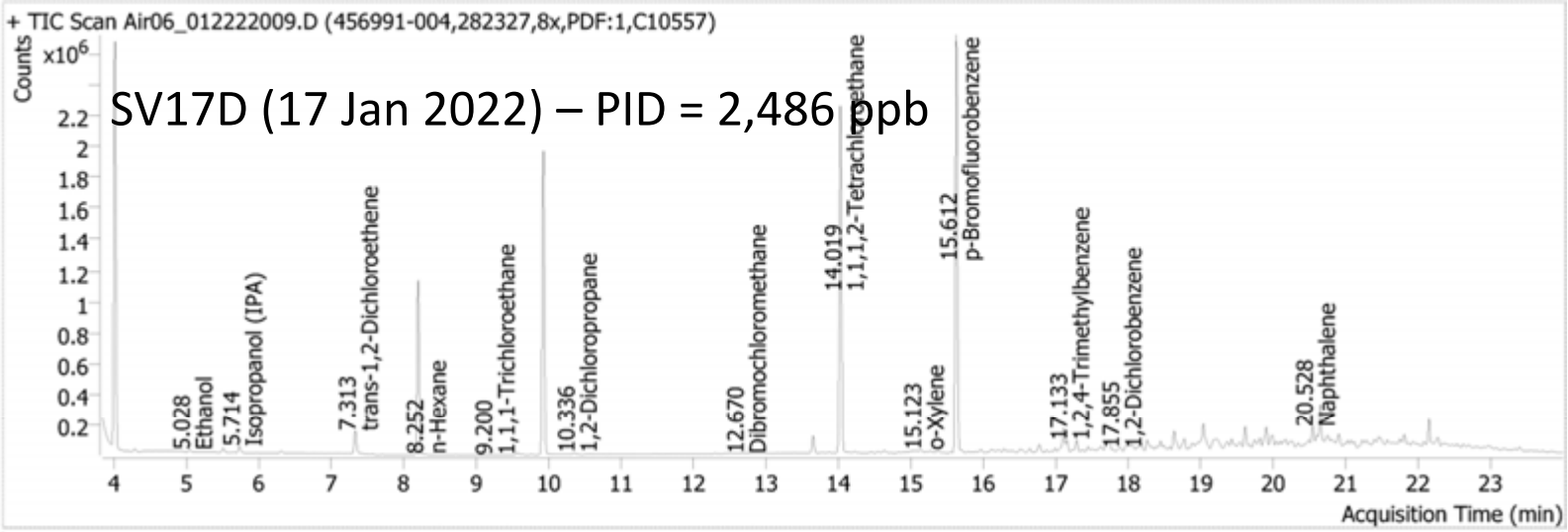
Mass Spec Chromatograms

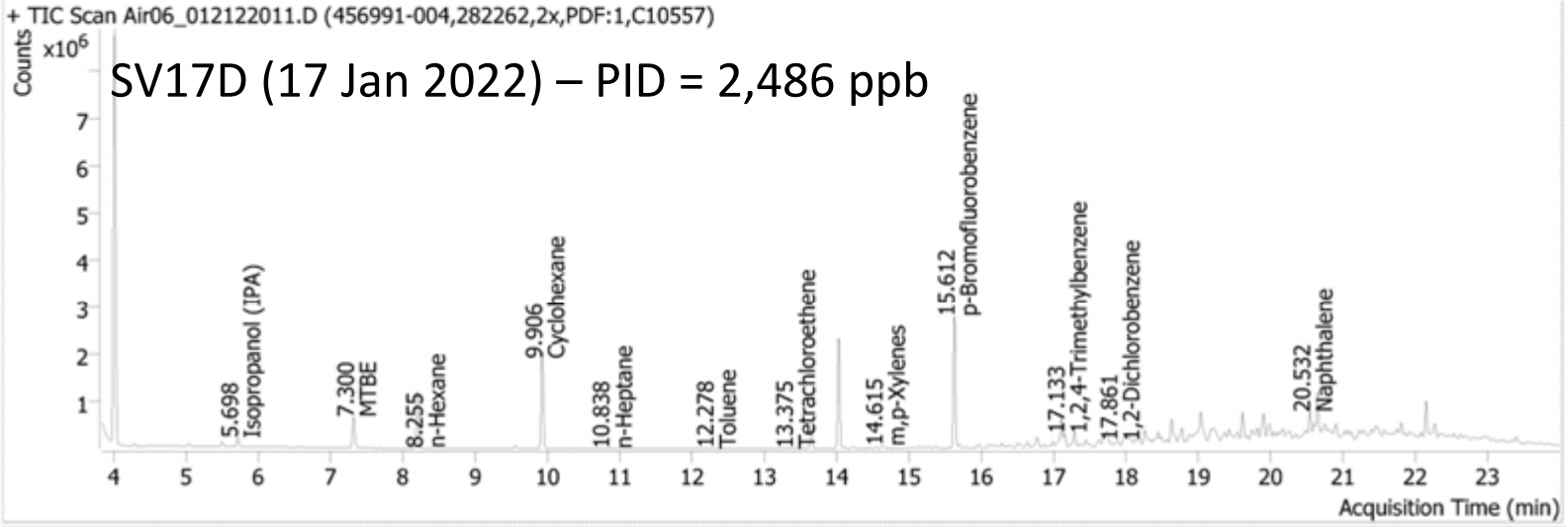

Lab Blank
Counts
x10^6
4.555 Butane
5.500 Acetone
6.293 Methylene Chloride
8.248 n-Hexane
9.912 Cyclohexane
10.336 1,2-Dichloropropane
11.436 4-Methyl-2-Pentanone
12.281 Toluene
14.061 Benzene, chloro-
15.003 Styrene
15.612 p-Bromofluorobenzene
16.622 1,3,5-Trimethylbenzene
17.858 1,2-Dichlorobenzene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

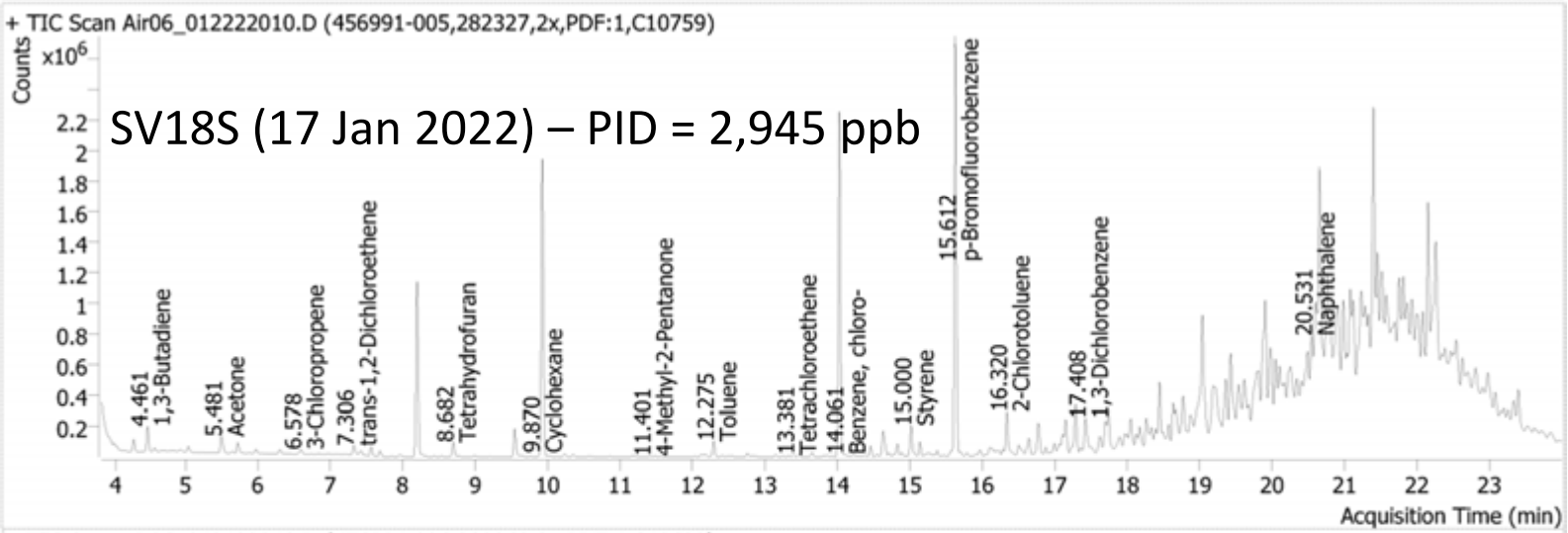

+ TIC Scan Air06_012122008.D (456991-001,282262,2x,PDF:1,C10699)
SV15S (17 Jan 2022) – PID = 0 ppb
Counts
x10^6
5.025 Ethanol
5.694 Isopropanol (IPA)
7.306 MTBE
8.255 cis-1,2-Dichloroethene
9.902 Cyclohexane
10.336 1,2-Dichloropropane
11.417 4-Methyl-2-Pentanone
12.281 Toluene
14.061 Benzene, chloro-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

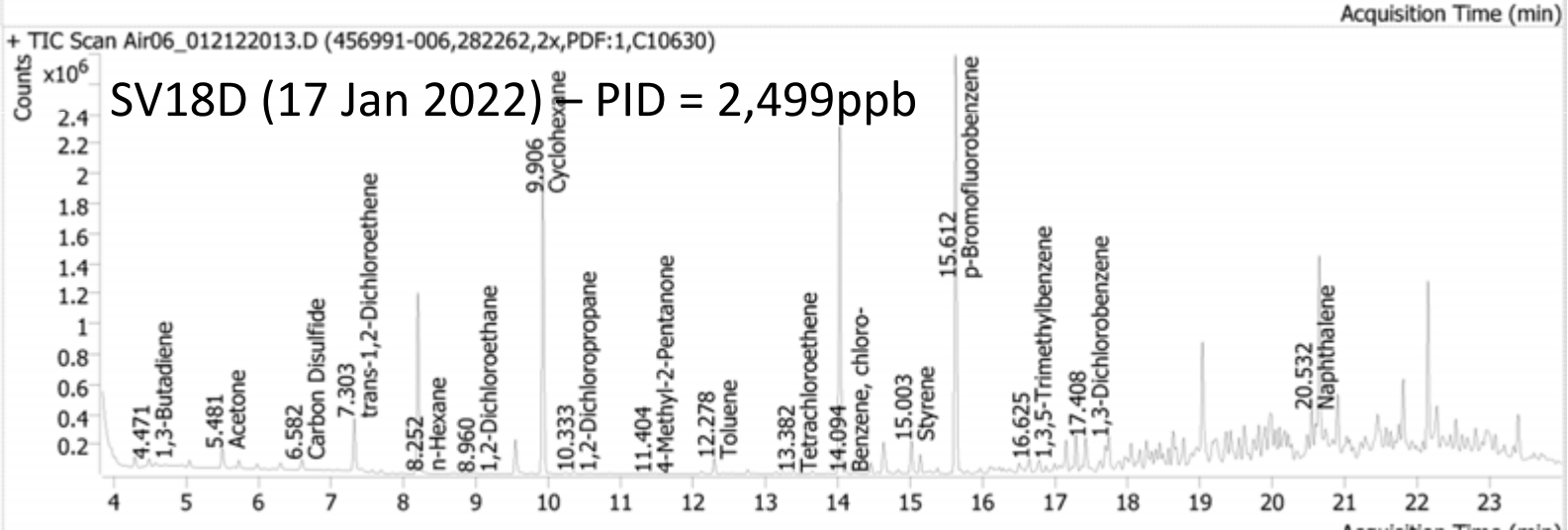

+ TIC Scan Air06_012122009.D (456991-002,282262,2x,PDF:1,C10625)
SV15D (17 Jan 2022) – PID = 0 ppb
Counts
x10^6
5.025 Ethanol
5.704 Isopropanol (IPA)
7.310 MTBE
8.255 n-Hexane
9.912 Cyclohexane
10.339 1,2-Dichloropropane
11.424 4-Methyl-2-Pentanone
12.278 Toluene
14.058 Benzene, chloro-
15.003 Styrene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

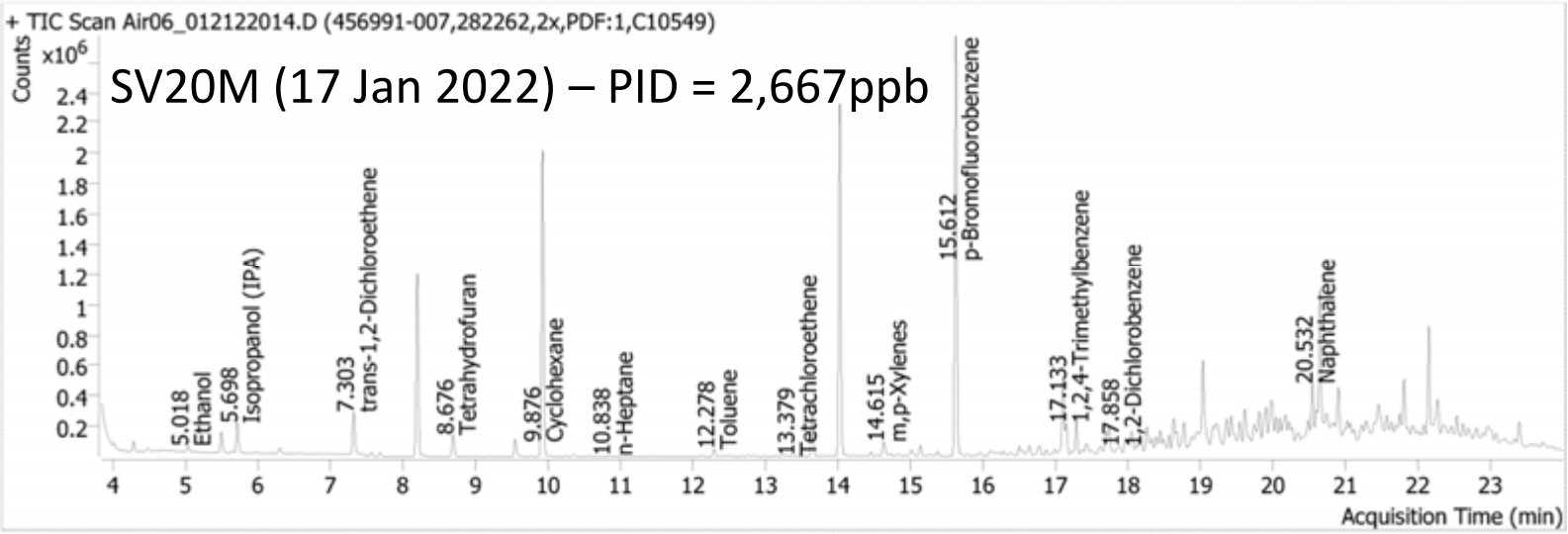

+ TIC Scan Air06_012222008.D (456991-003,282327,2x,PDF:1,C10280)
SV17S (17 Jan 2022) – 2,210 PID = ppb
Counts
x10^6
5.471 Acetone
6.293 Methylene Chloride
7.407 Vinyl Acetate
8.242 Ethyl Acetate
9.905 Cyclohexane
10.336 1,2-Dichloropropane
11.401 4-Methyl-2-Pentanone
12.275 Toluene
13.378 Tetrachloroethene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

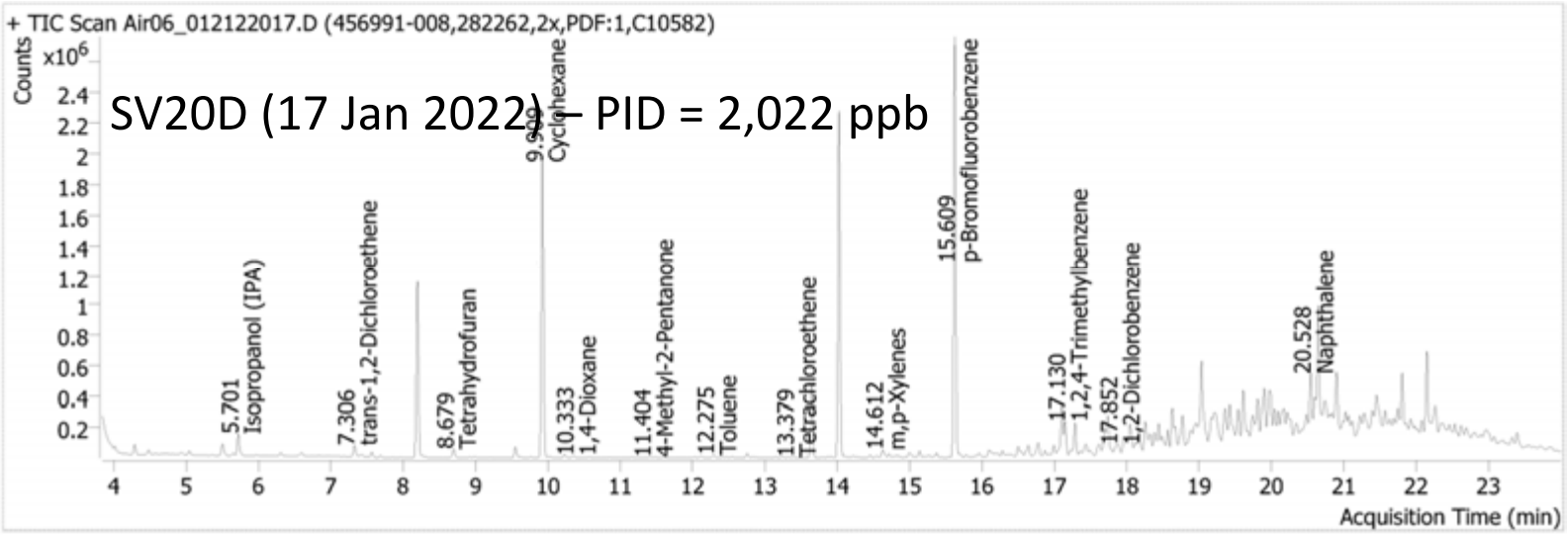

+ TIC Scan Air06_012222009.D (456991-004,282327,8x,PDF:1,C10557)
SV17D (17 Jan 2022) – PID = 2,486 ppb
Counts
x10^6
5.028 Ethanol
5.714 Isopropanol (IPA)
7.313 trans-1,2-Dichloroethene
8.252 n-Hexane
9.200 1,1,1-Trichloroethane
10.336 1,2-Dichloropropane
12.670 Dibromochloromethane
14.019 1,1,1,2-Tetrachloroethane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


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


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

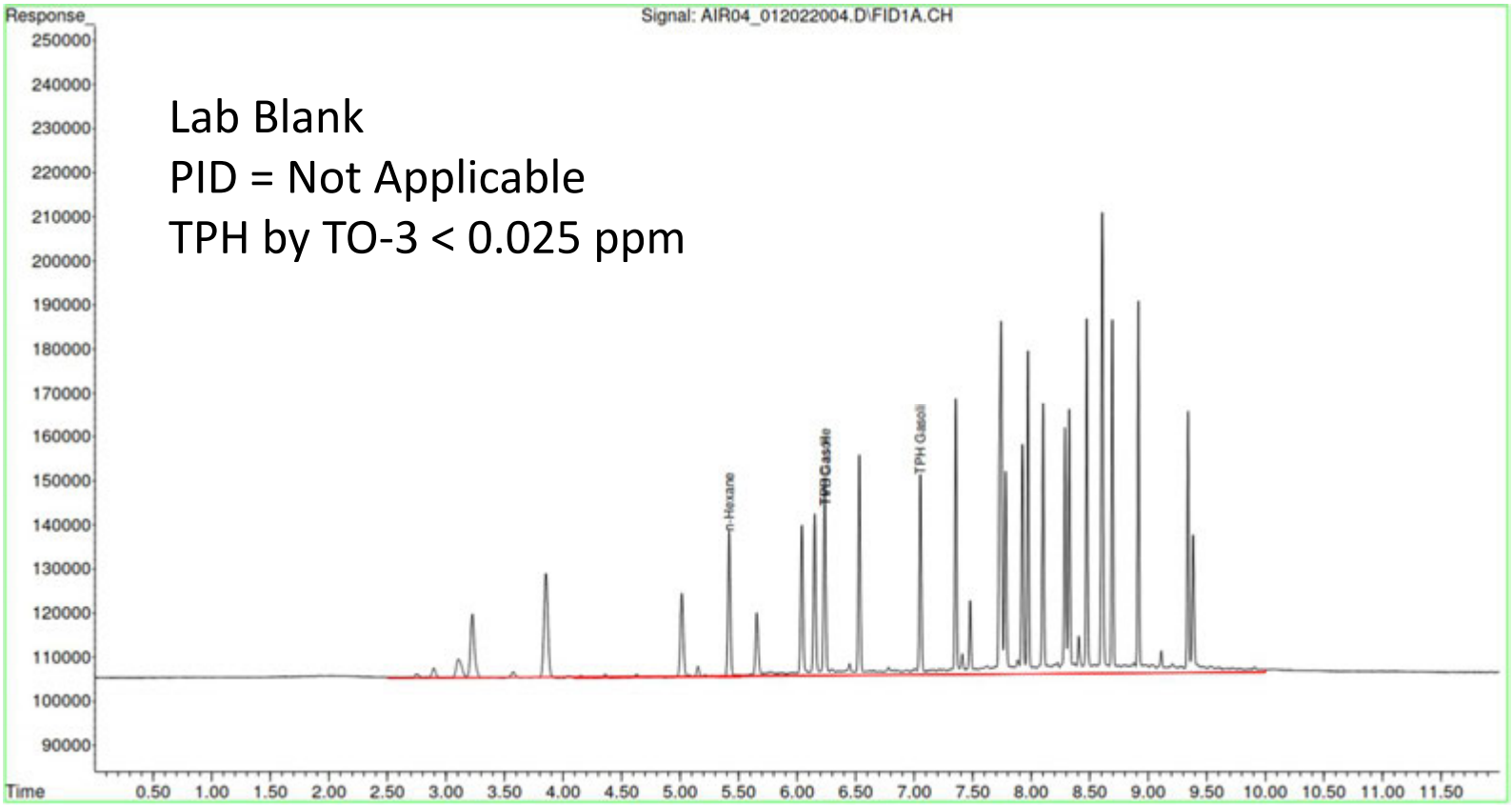

+ TIC Scan Air06_012122013.D (456991-006,282262,2x,PDF:1,C10630)
SV18D (17 Jan 2022) – PID = 2,499ppb
Counts
x10^6
4.471 1,3-Butadiene
5.481 Acetone
6.582 Carbon Disulfide
7.303 trans-1,2-Dichloroethene
8.252 n-Hexane
8.960 1,2-Dichloroethane
9.906 Cyclohexane
10.333 1,2-Dichloropropane
11.404 4-Methyl-2-Pentanone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

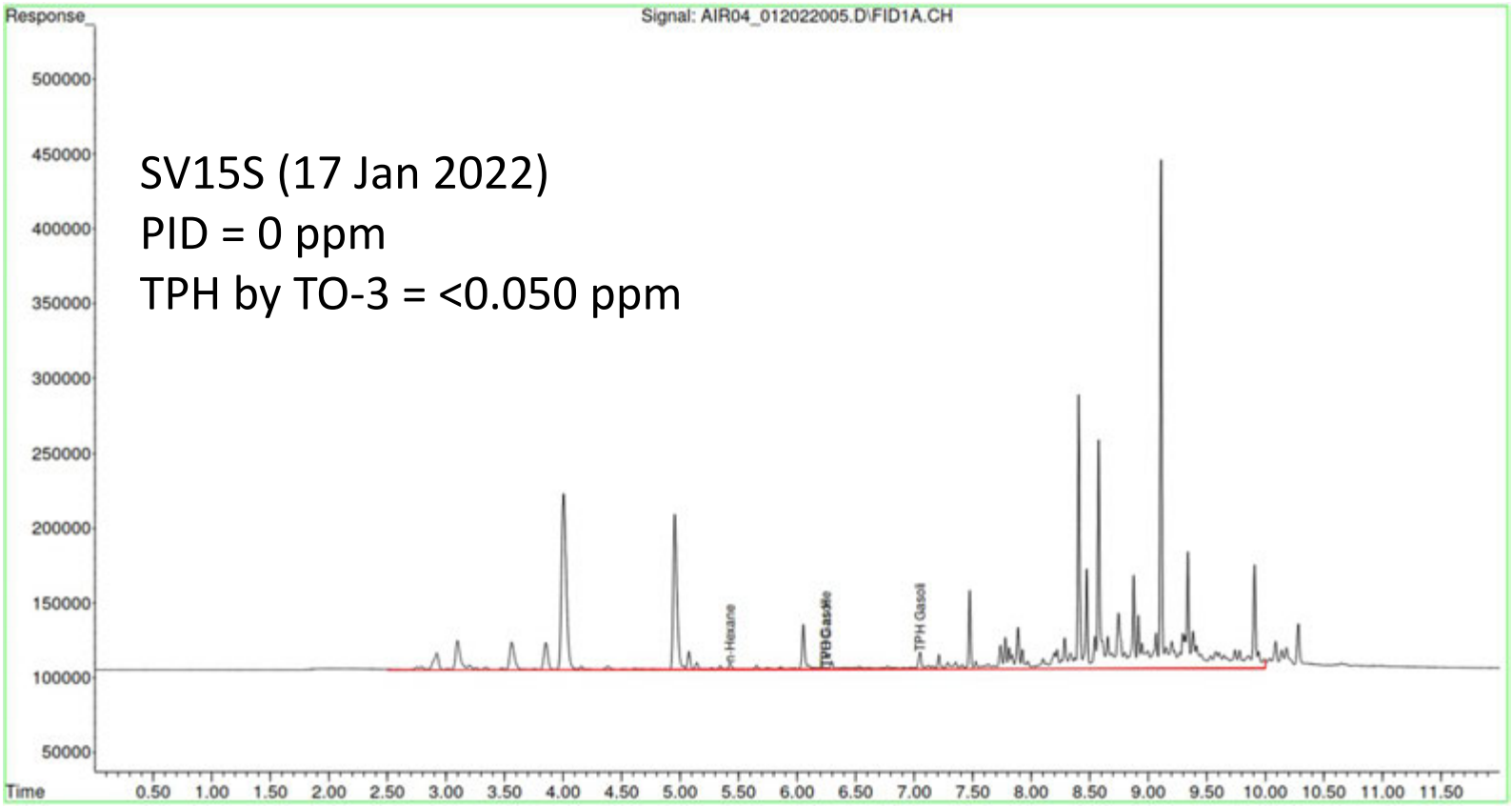

+ TIC Scan Air06_012122014.D (456991-007,282262,2x,PDF:1,C10549)
SV20M (17 Jan 2022) – PID = 2,667ppb
Counts
x10^6
5.018 Ethanol
5.698 Isopropanol (IPA)
7.303 trans-1,2-Dichloroethene
8.676 Tetrahydrofuran
9.876 Cyclohexane
10.838 n-Heptane
12.278 Toluene
13.379 Tetrachloroethene
14.615 m,p-Xylenes
15.612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

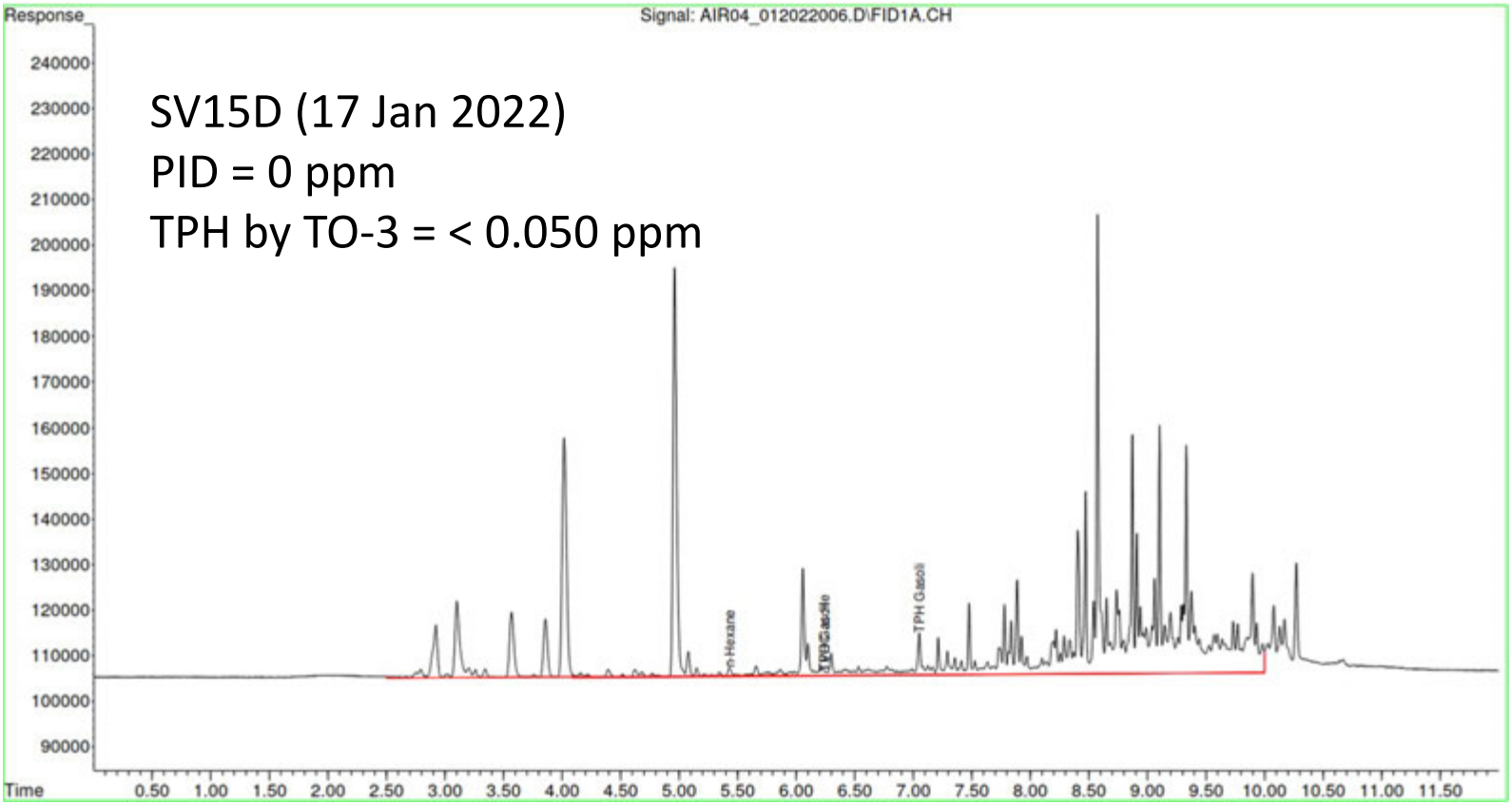

+ TIC Scan Air06_012122017.D (456991-008,282262,2x,PDF:1,C10582)
SV20D (17 Jan 2022) – PID = 2,022 ppb
Counts
x10^6
5.701 Isopropanol (IPA)
7.306 trans-1,2-Dichloroethene
8.679 Tetrahydrofuran
9.880 Cyclohexane
10.333 1,4-Dioxane
11.404 4-Methyl-2-Pentanone
12.275 Toluene
13.379 Tetrachloroethene
14.612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

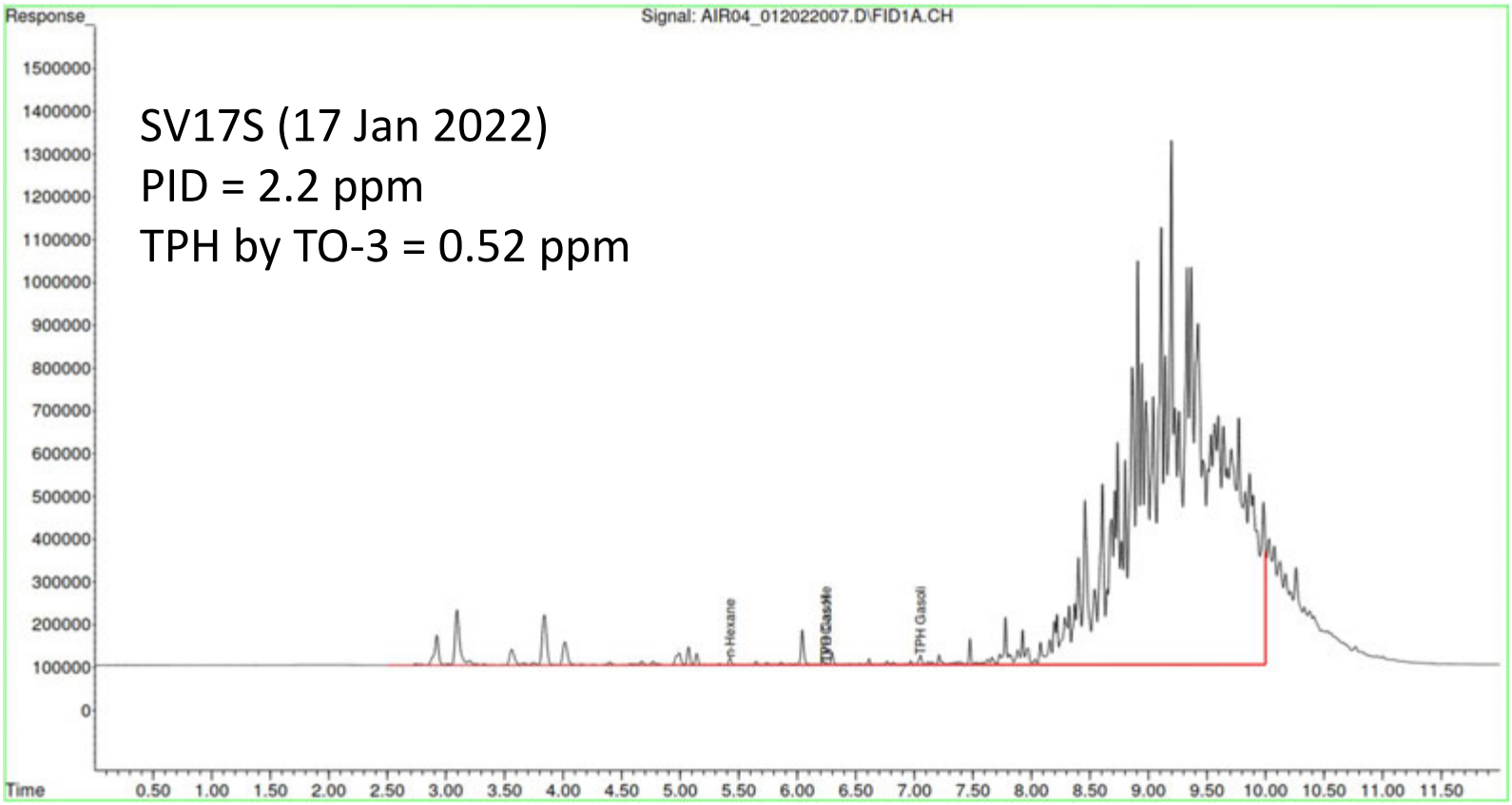
January 2022
Soil Vapor Samples

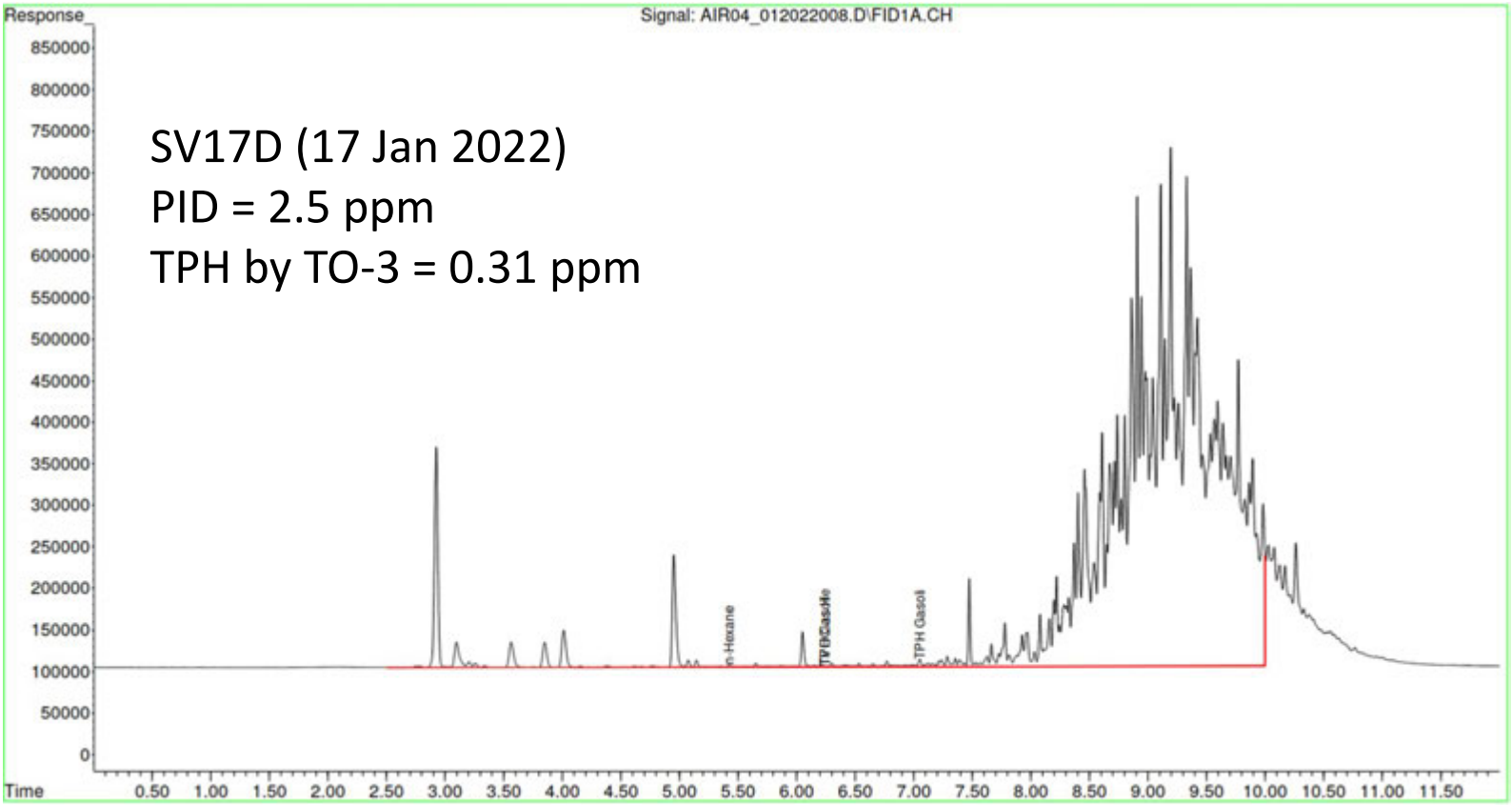
FID Chromatograms

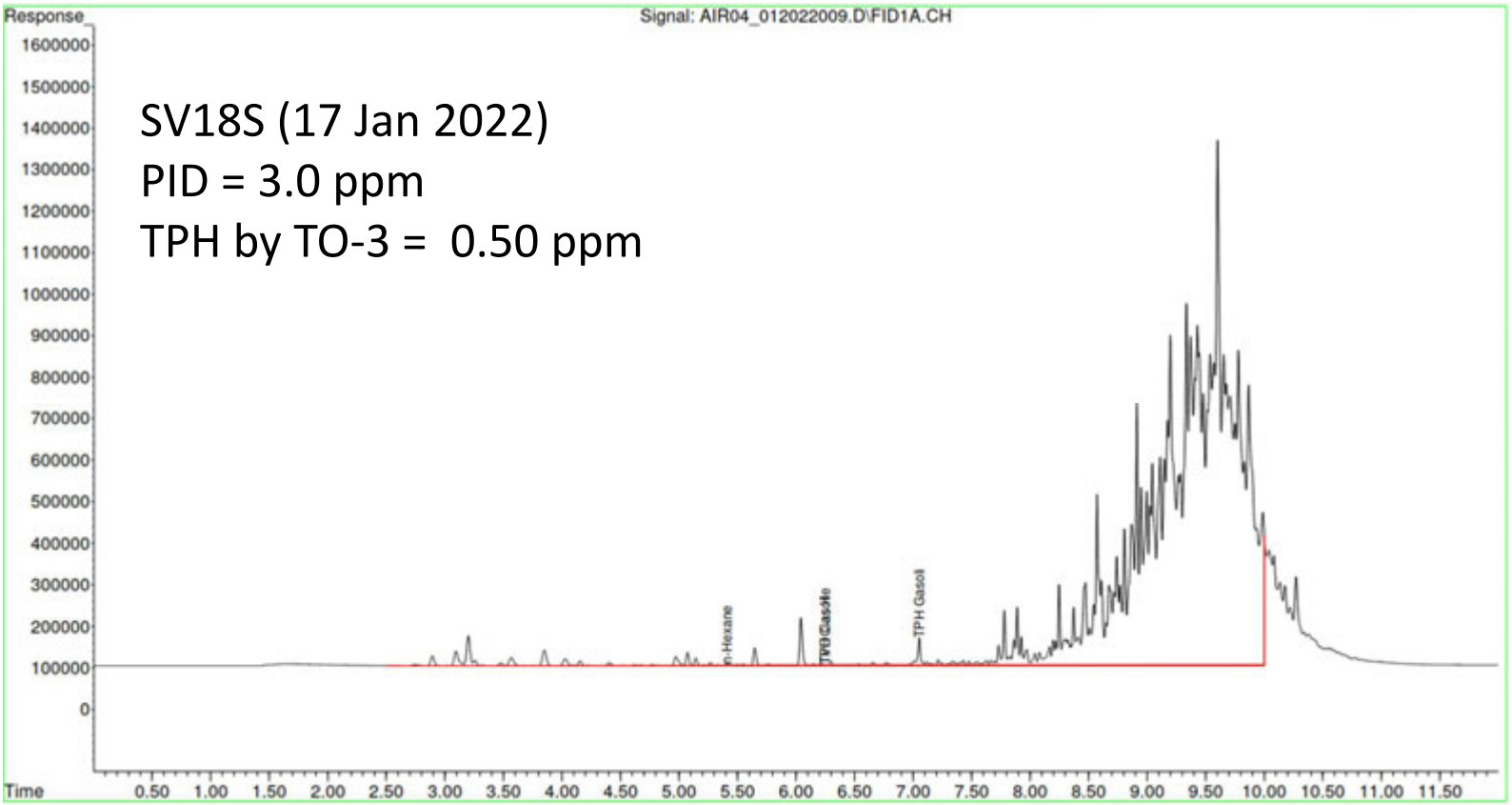

Signal: AIR04_012022004.D\FID1A.CH
Response
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
n-Hexane
TPH Gasoil
Time

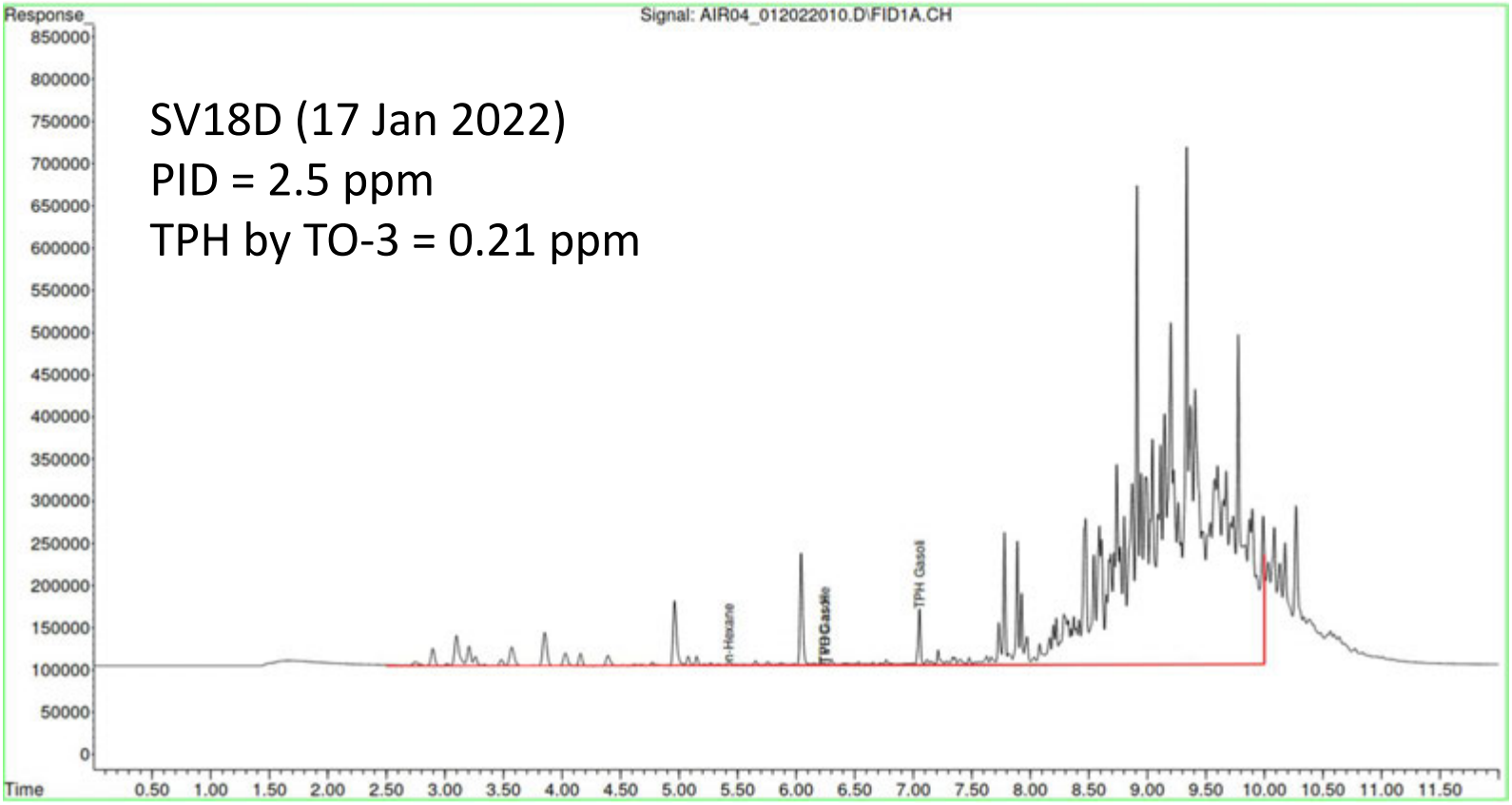

Signal: AIR04_012022005.D\FID1A.CH
Response
SV15S (17 Jan 2022)
PID = 0 ppm
TPH by TO-3 = <0.050 ppm
n-Hexane
TPH Gasoil
Time

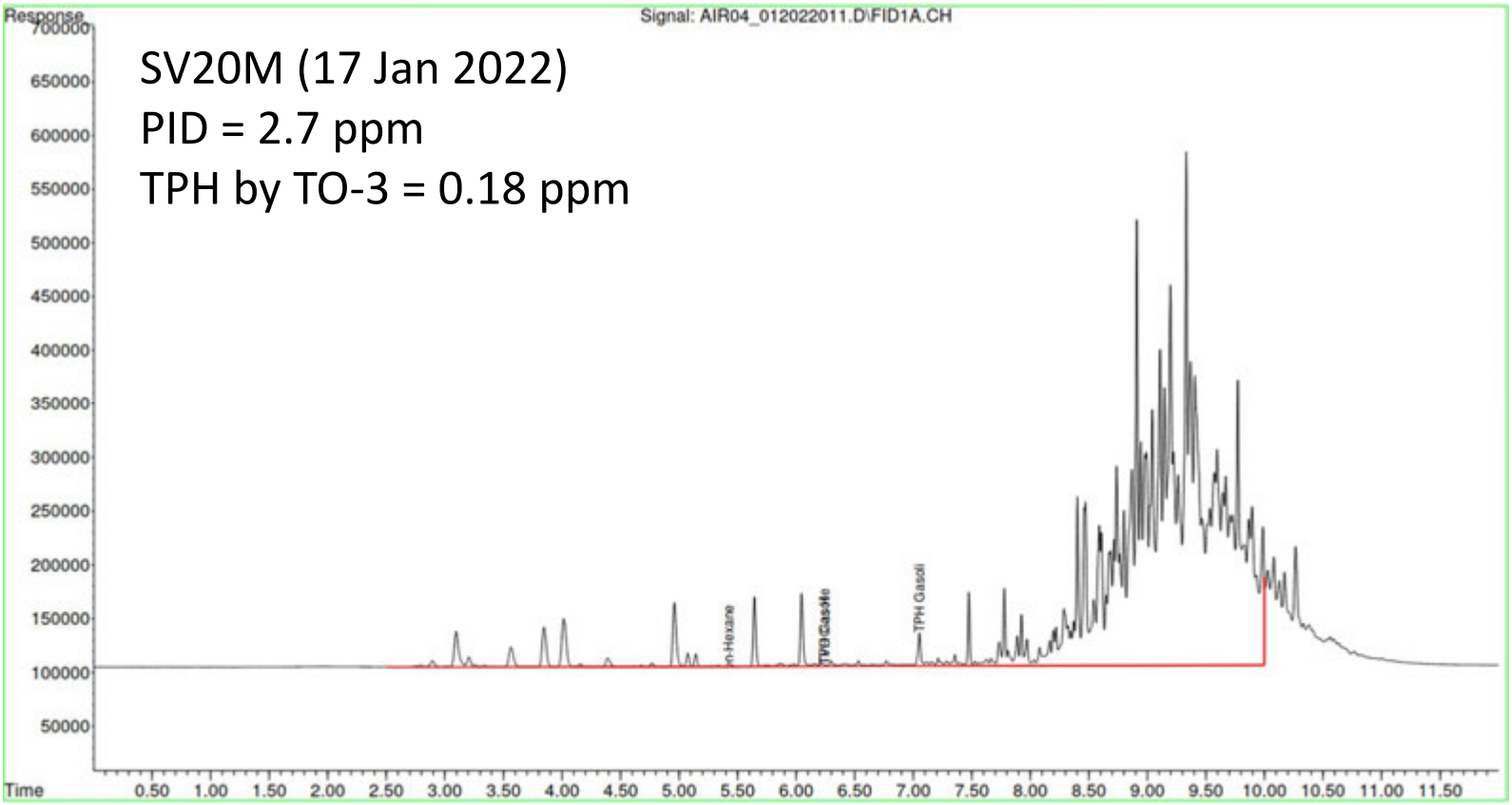

Signal: AIR04_012022006.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoline
TPH Gasoil
SV15D (17 Jan 2022)
PID = 0 ppm
TPH by TO-3 = < 0.050 ppm

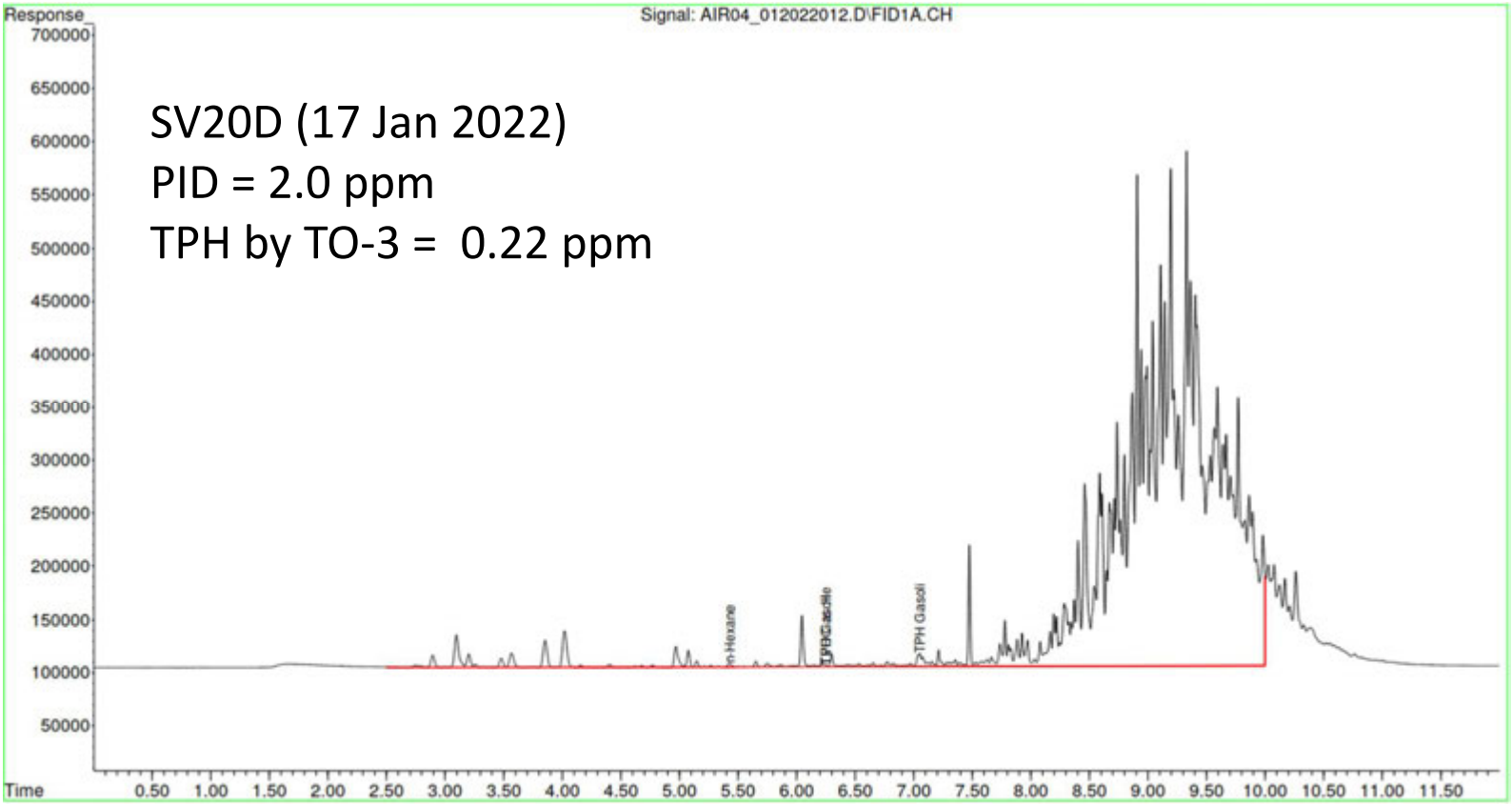

Signal: AIR04_012022007.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoline
TPH Gasoil
SV17S (17 Jan 2022)
PID = 2.2 ppm
TPH by TO-3 = 0.52 ppm


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


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

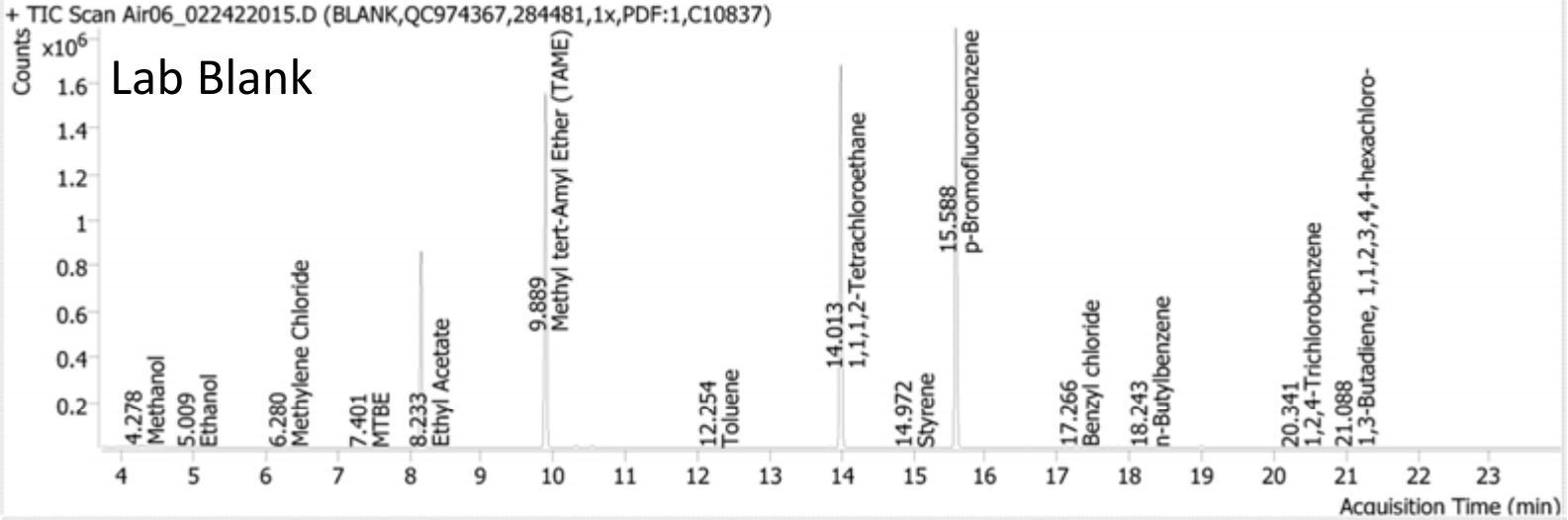

Signal: AIR04_012022010.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoline
TPH Gasoil
SV18D (17 Jan 2022)
PID = 2.5 ppm
TPH by TO-3 = 0.21 ppm

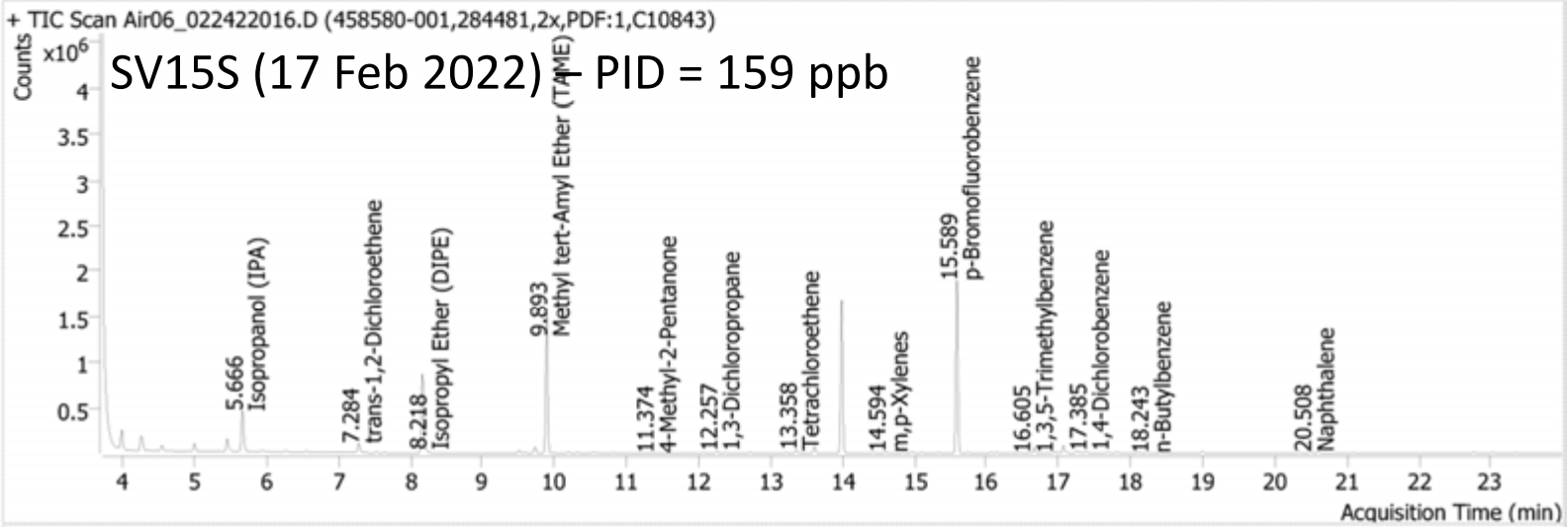

Signal: AIR04_012022011.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoline
TPH Gasoil
SV20M (17 Jan 2022)
PID = 2.7 ppm
TPH by TO-3 = 0.18 ppm

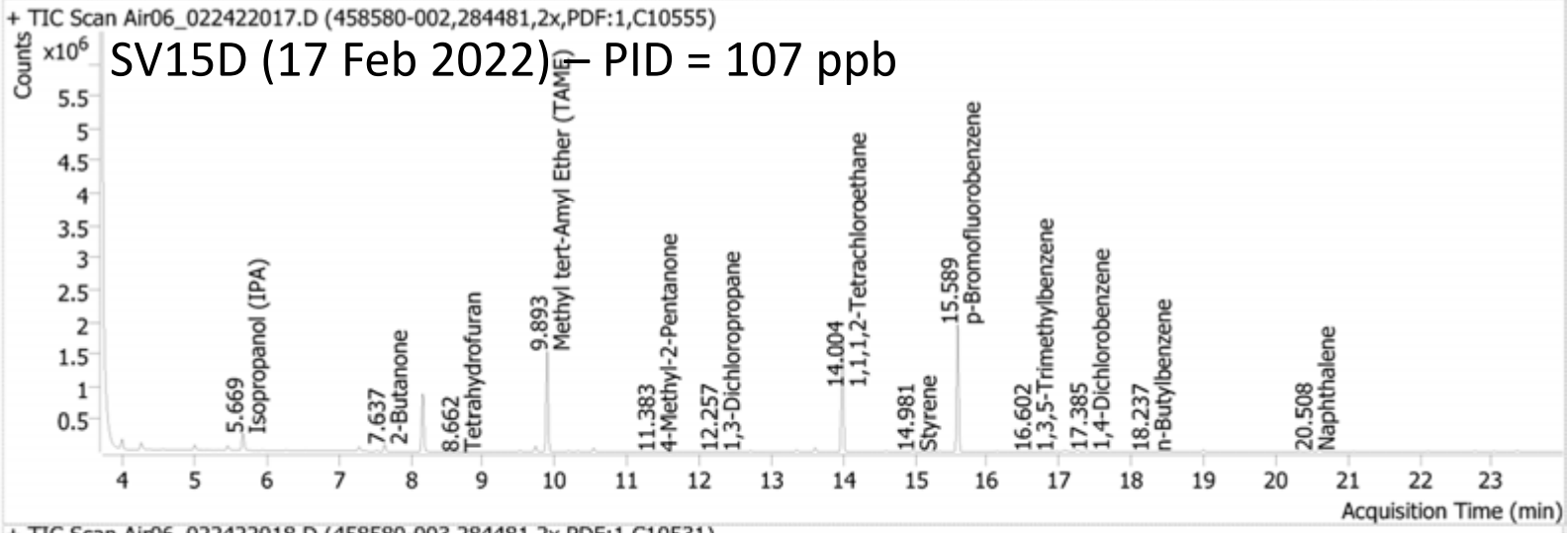

Signal: AIR04_012022012.D\FID1A.CH
Response
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
n-Hexane
TPH Gasoli
SV20D (17 Jan 2022)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

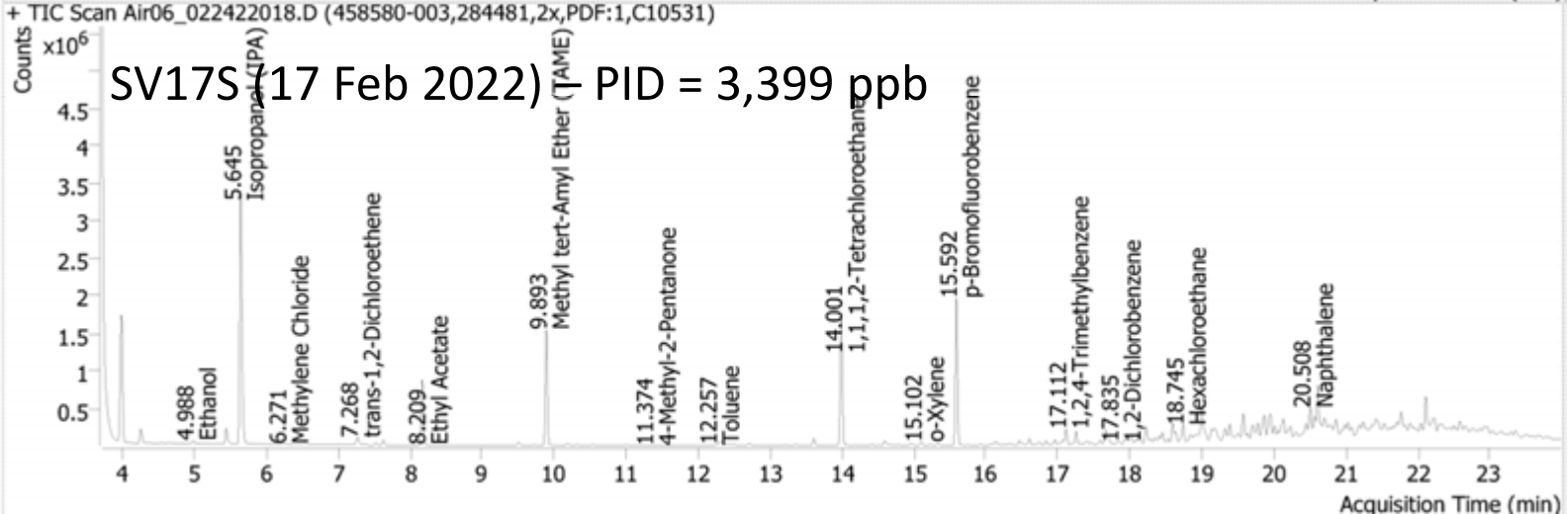
February 2022
Soil Vapor Samples

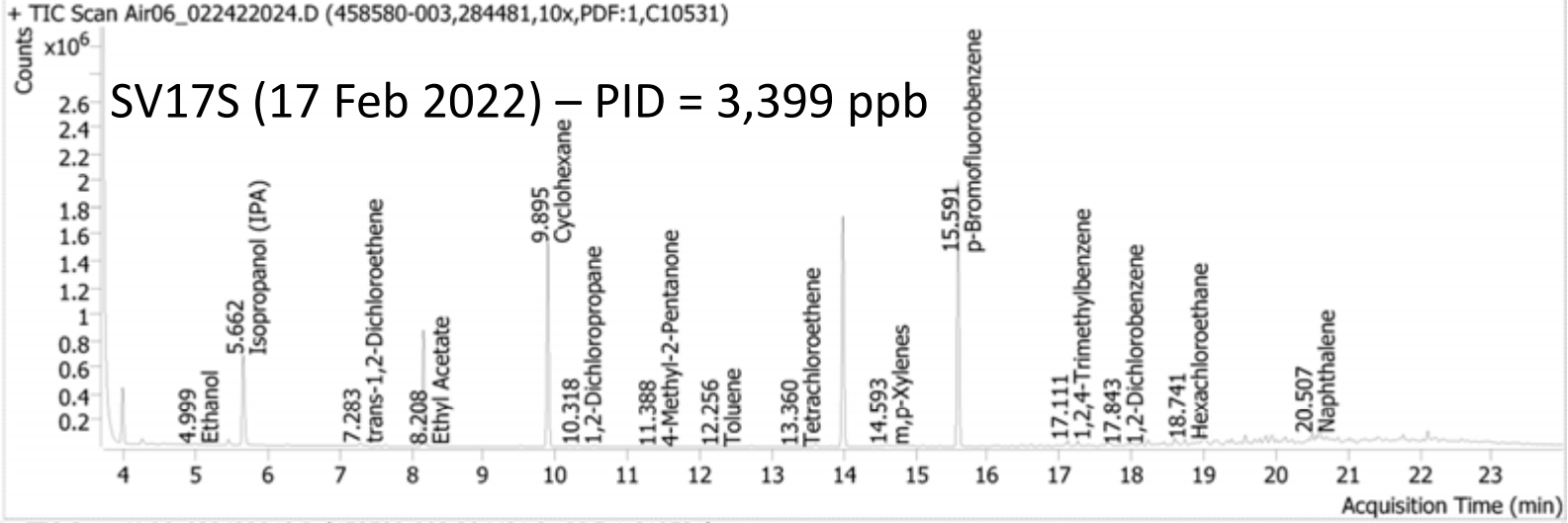
Mass Spec Chromatograms

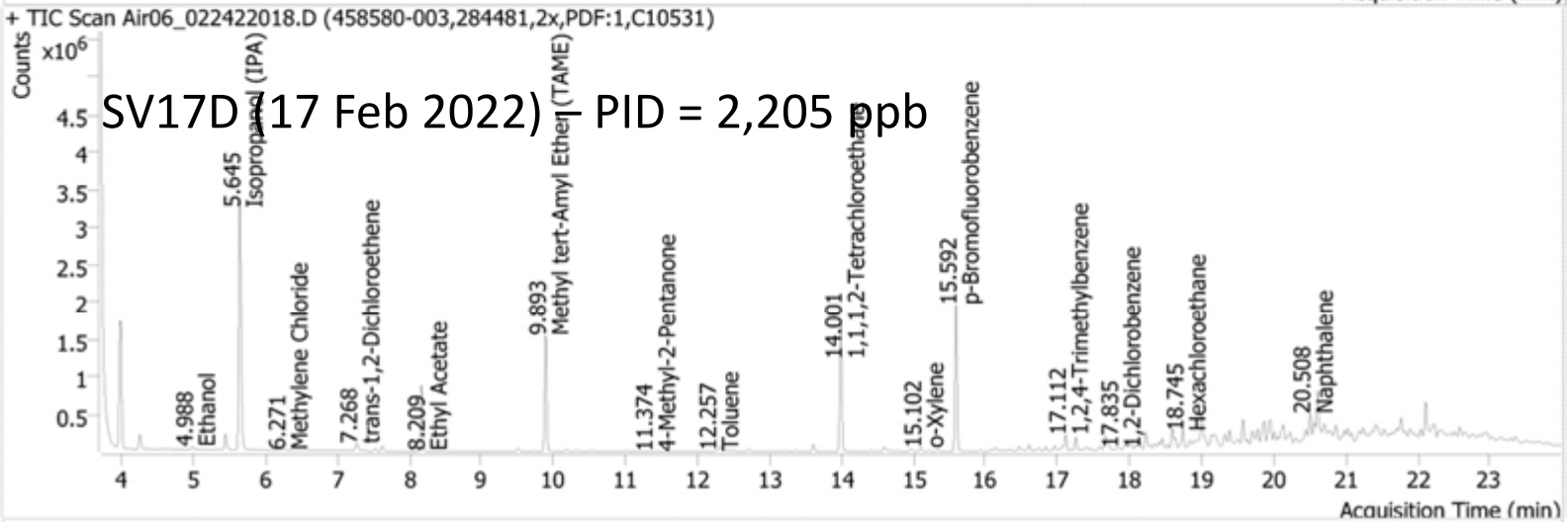

+ TIC Scan Air06_022422015.D (BLANK,QC974367,284481,1x,PDF:1,C10837)
Lab Blank
Counts
x10^6
4.278 Methanol
5.009 Ethanol
6.280 Methylene Chloride
7.401 MTBE
8.233 Ethyl Acetate
9.889 Methyl tert-Amyl Ether (TAME)
12.254 Toluene
14.013 1,1,1,2-Tetrachloroethane
14.972 Styrene
15.588 p-Bromofluorobenzene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

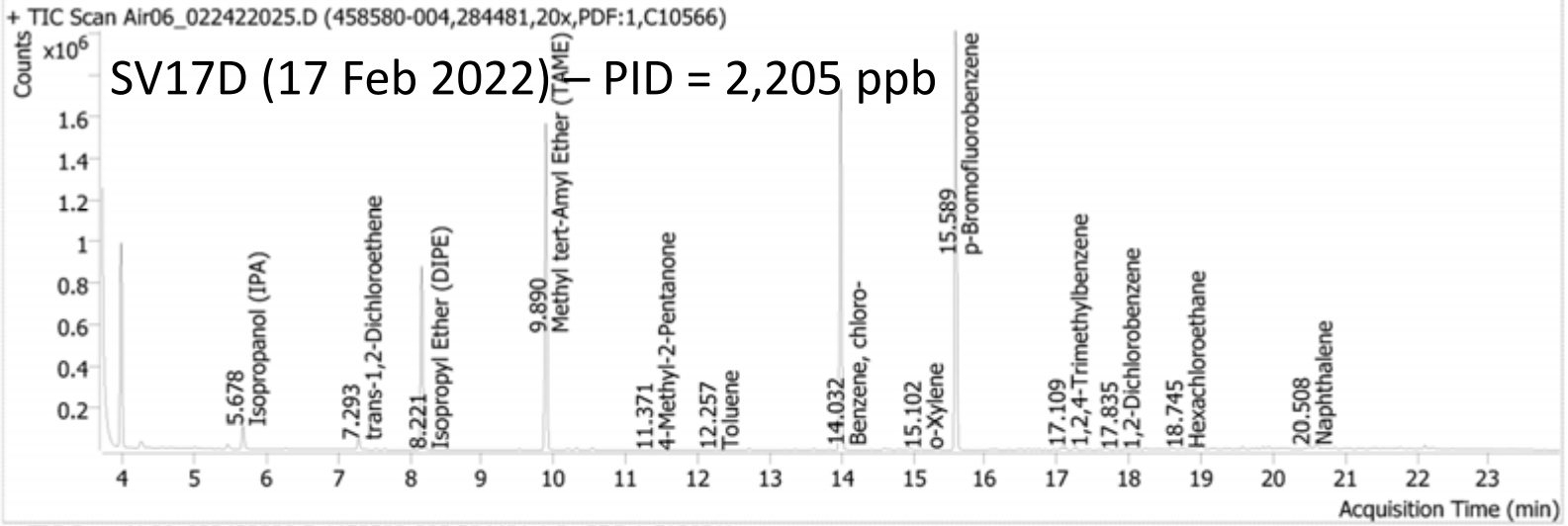

+ TIC Scan Air06_022422016.D (458580-001,284481,2x,PDF:1,C10843)
SV15S (17 Feb 2022) – PID = 159 ppb
Counts
x10^6
5.666 Isopropanol (IPA)
7.284 trans-1,2-Dichloroethene
8.218 Isopropyl Ether (DIPE)
9.893 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257 1,3-Dichloropropane
13.358 Tetrachloroethene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

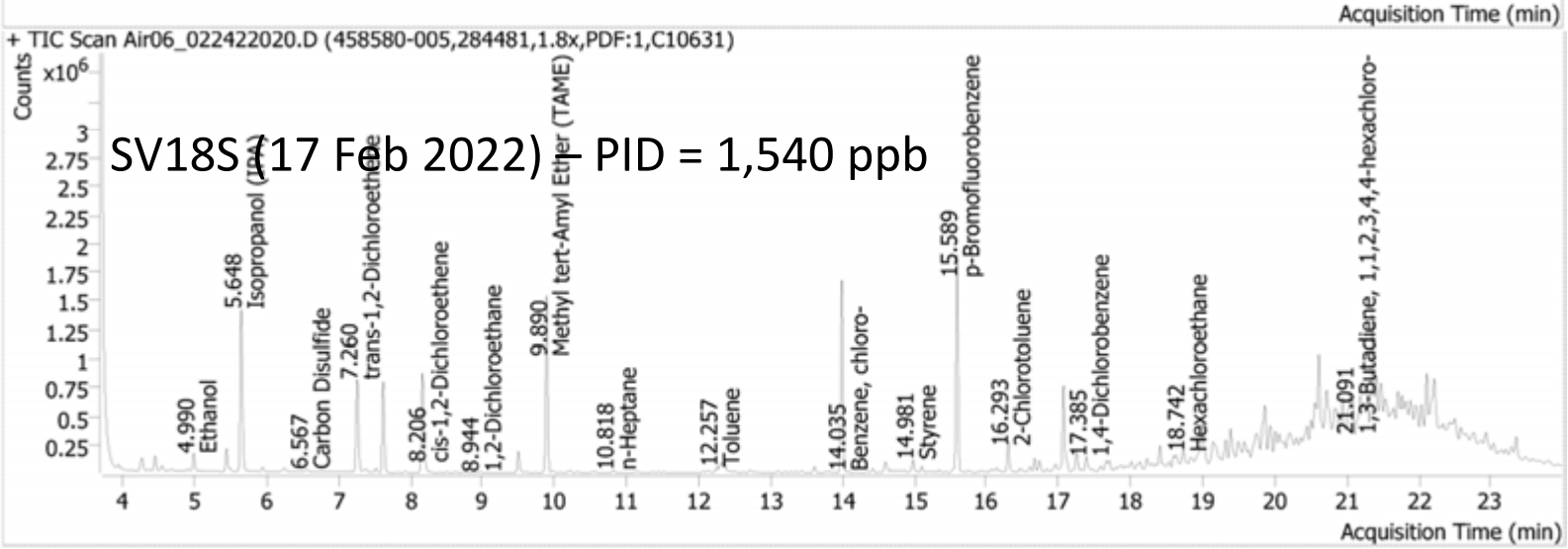

+ TIC Scan Air06_022422017.D (458580-002,284481,2x,PDF:1,C10555)
SV15D (17 Feb 2022) – PID = 107 ppb
Counts
x10^6
5.669 Isopropanol (IPA)
7.637 2-Butanone
8.662 Tetrahydrofuran
9.893 Methyl tert-Amyl Ether (TAME)
11.383 4-Methyl-2-Pentanone
12.257 1,3-Dichloropropane
14.004 1,1,1,2-Tetrachloroethane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

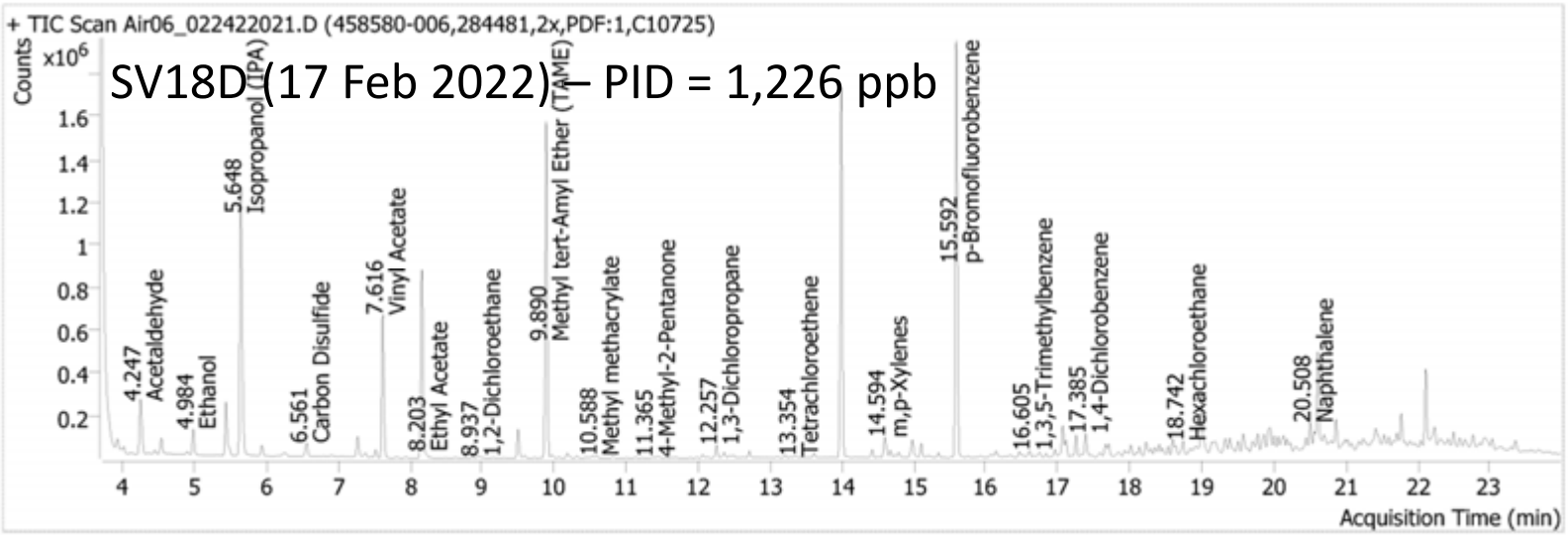

+ TIC Scan Air06_022422018.D (458580-003,284481,2x,PDF:1,C10531)
SV17S (17 Feb 2022) – PID = 3,399 ppb
Counts
x10^6
4.988 Ethanol
5.645 Isopropanol (IPA)
6.271 Methylene Chloride
7.268 trans-1,2-Dichloroethene
8.209 Ethyl Acetate
9.893 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257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

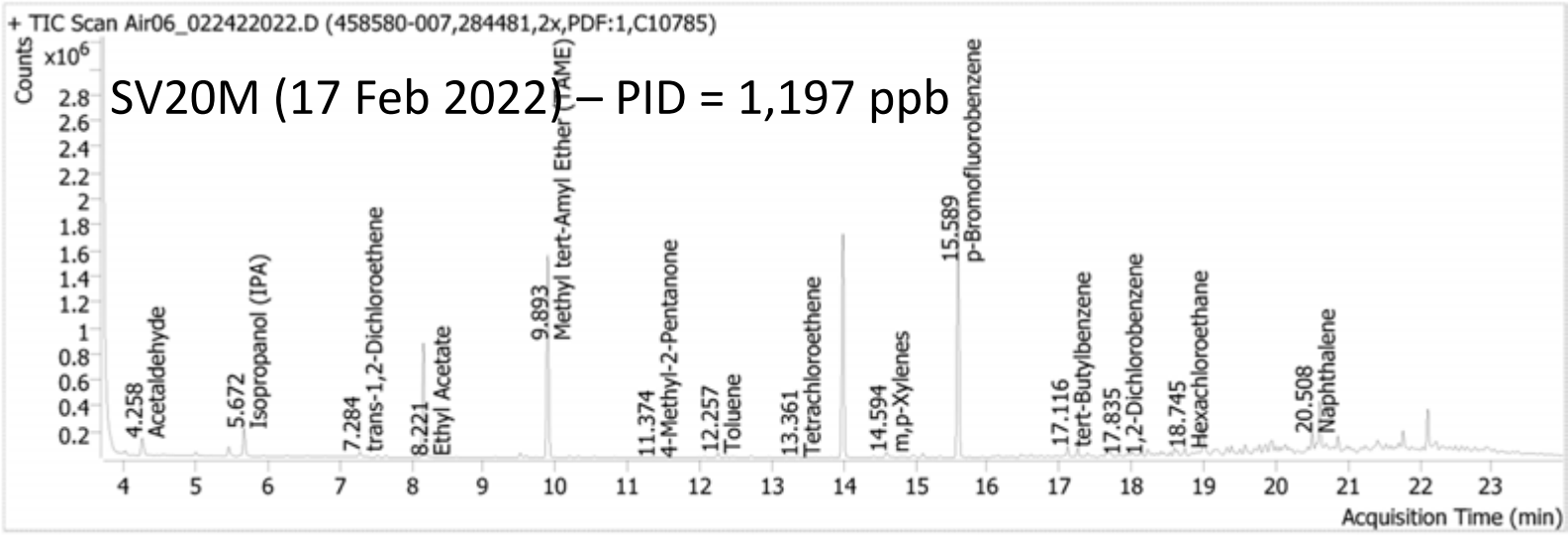

+ TIC Scan Air06_022422024.D (458580-003,284481,10x,PDF:1,C10531)
SV17S (17 Feb 2022) – PID = 3,399 ppb
Counts
x10^6
4.999 Ethanol
5.662 Isopropanol (IPA)
7.283 trans-1,2-Dichloroethene
8.208 Ethyl Acetate
9.895 Cyclohexane
10.318 1,2-Dichloropropane
11.388 4-Methyl-2-Pentanone
12.256 Toluene
13.360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

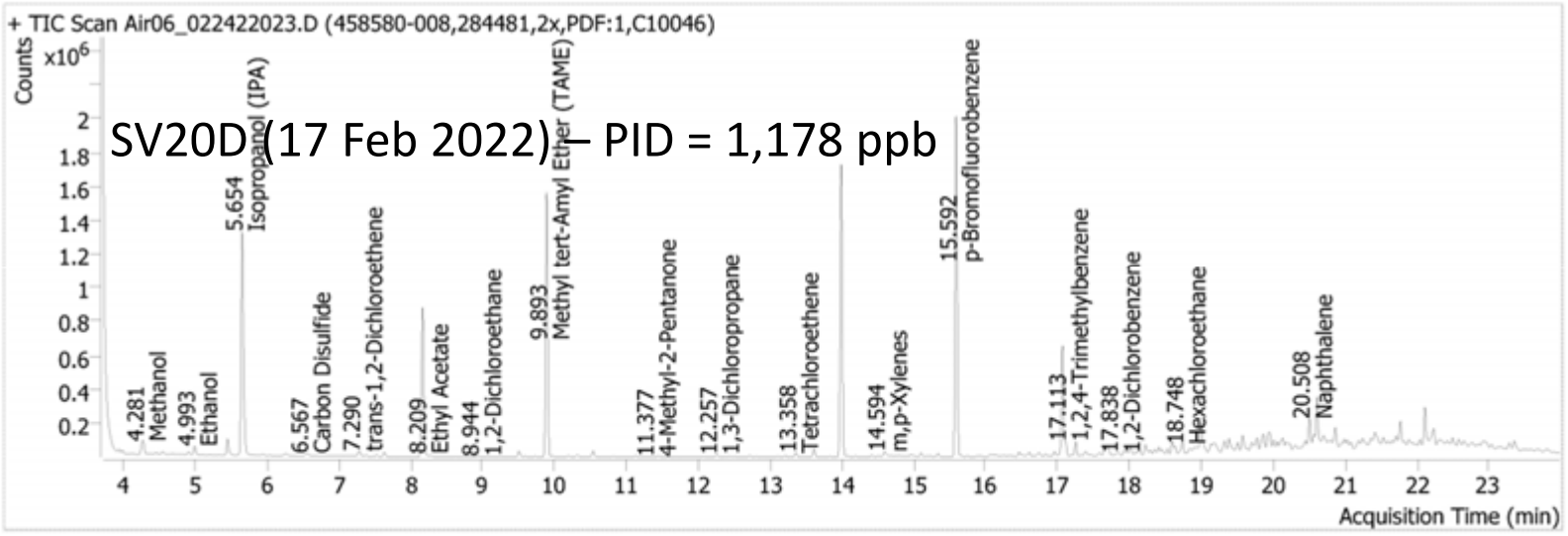

+ TIC Scan Air06_022422018.D (458580-003,284481,2x,PDF:1,C10531)
SV17D (17 Feb 2022) – PID = 2,205 ppb
Counts
x10^6
4.988 Ethanol
5.645 Isopropanol (IPA)
6.271 Methylene Chloride
7.268 trans-1,2-Dichloroethene
8.209 Ethyl Acetate
9.893 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257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


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


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

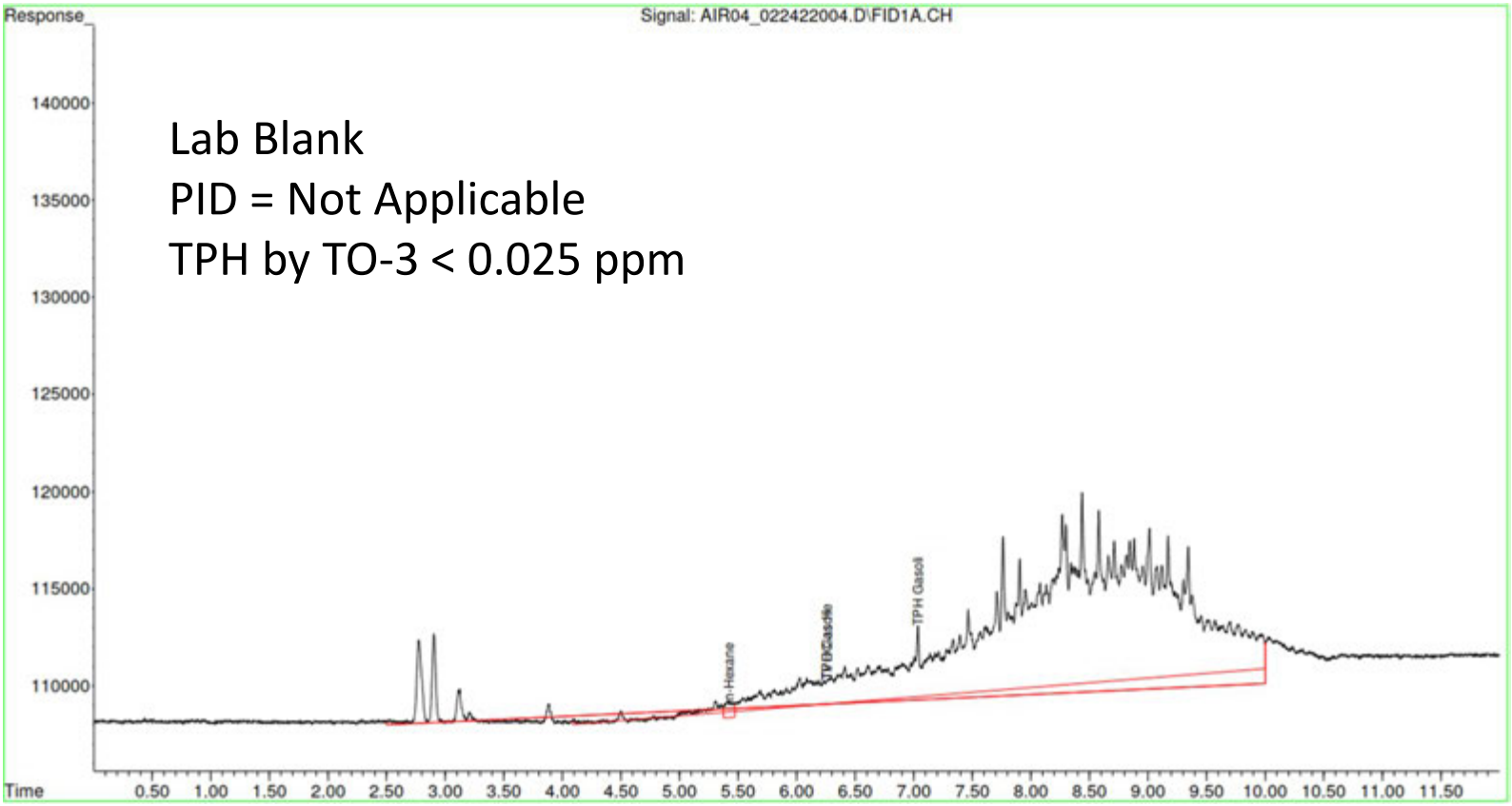

+ TIC Scan Air06_022422021.D (458580-006,284481,2x,PDF:1,C10725)
SV18D (17 Feb 2022) – PID = 1,226 ppb
Counts
x10^6
4.247 Acetaldehyde
4.984 Ethanol
5.648 Isopropanol (IPA)
6.561 Carbon Disulfide
7.616 Vinyl Acetate
8.203 Ethyl Acetate
8.937 1,2-Dichloroethane
9.890 Methyl tert-Amyl Ether (TAME)
10.588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

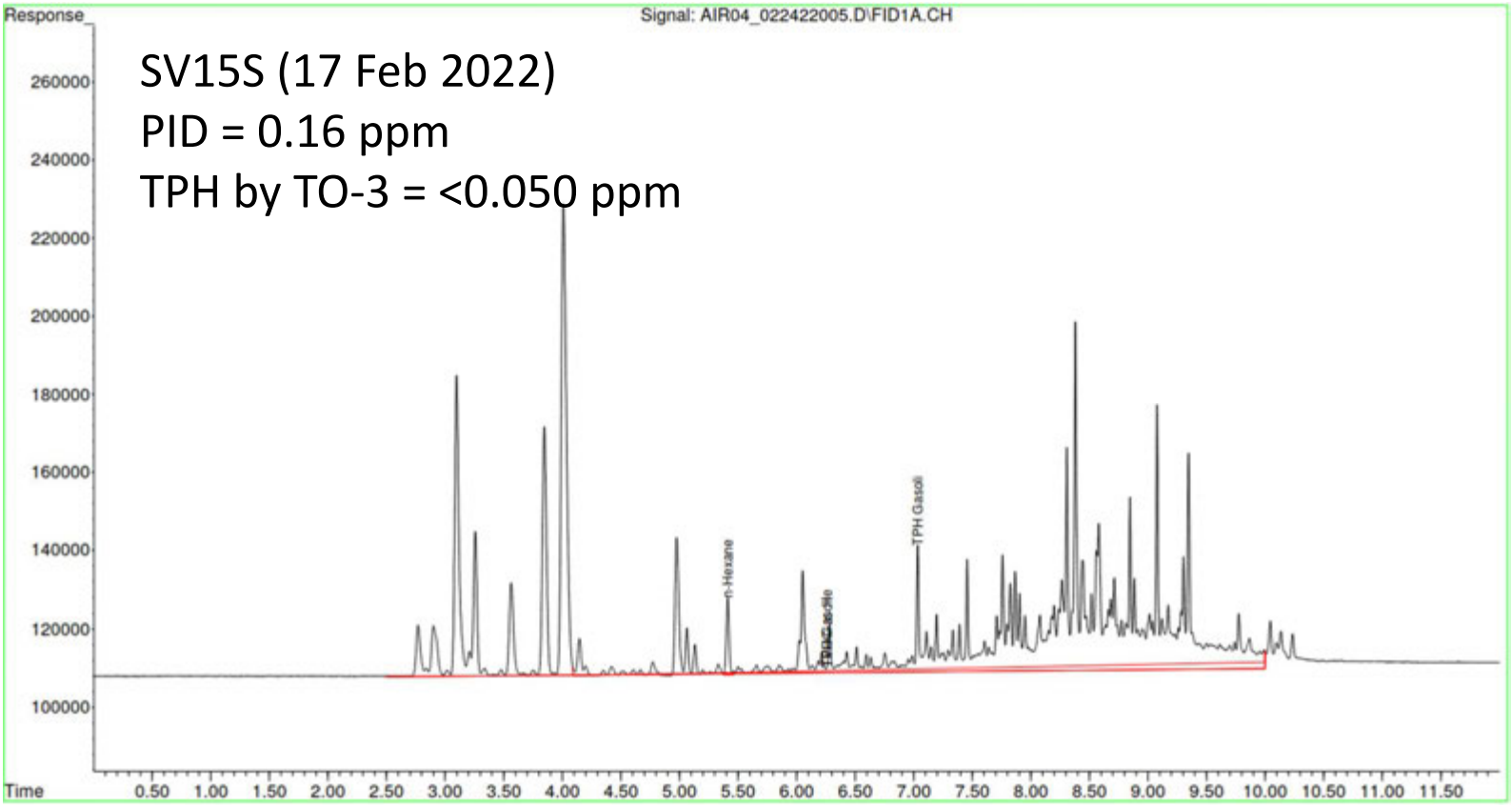

+ TIC Scan Air06_022422022.D (458580-007,284481,2x,PDF:1,C10785)
SV20M (17 Feb 2022) – PID = 1,197 ppb
Counts
x10^6
4.258 Acetaldehyde
5.672 Isopropanol (IPA)
7.284 trans-1,2-Dichloroethene
8.221 Ethyl Acetate
9.893 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257 Toluene
13.361 Tetrachloroethene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

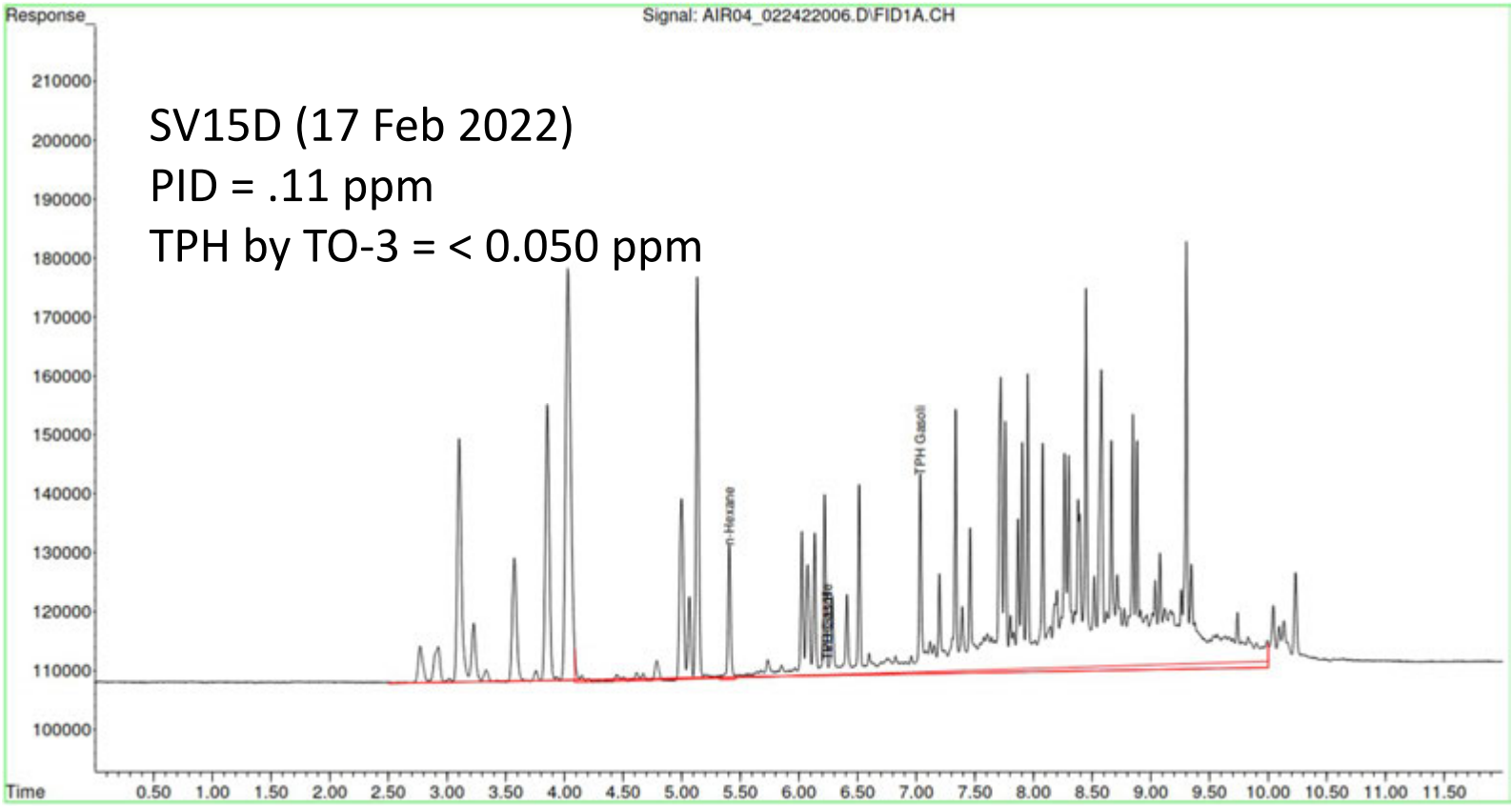

+ TIC Scan Air06_022422023.D (458580-008,284481,2x,PDF:1,C10046)
SV20D (17 Feb 2022) – PID = 1,178 ppb
Counts
x10^6
4.281 Methanol
4.993 Ethanol
5.654 Isopropanol (IPA)
6.567 Carbon Disulfide
7.290 trans-1,2-Dichloroethene
8.209 Ethyl Acetate
8.944 1,2-Dichloroethane
9.893 Methyl tert-Amyl Ether (TAME)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

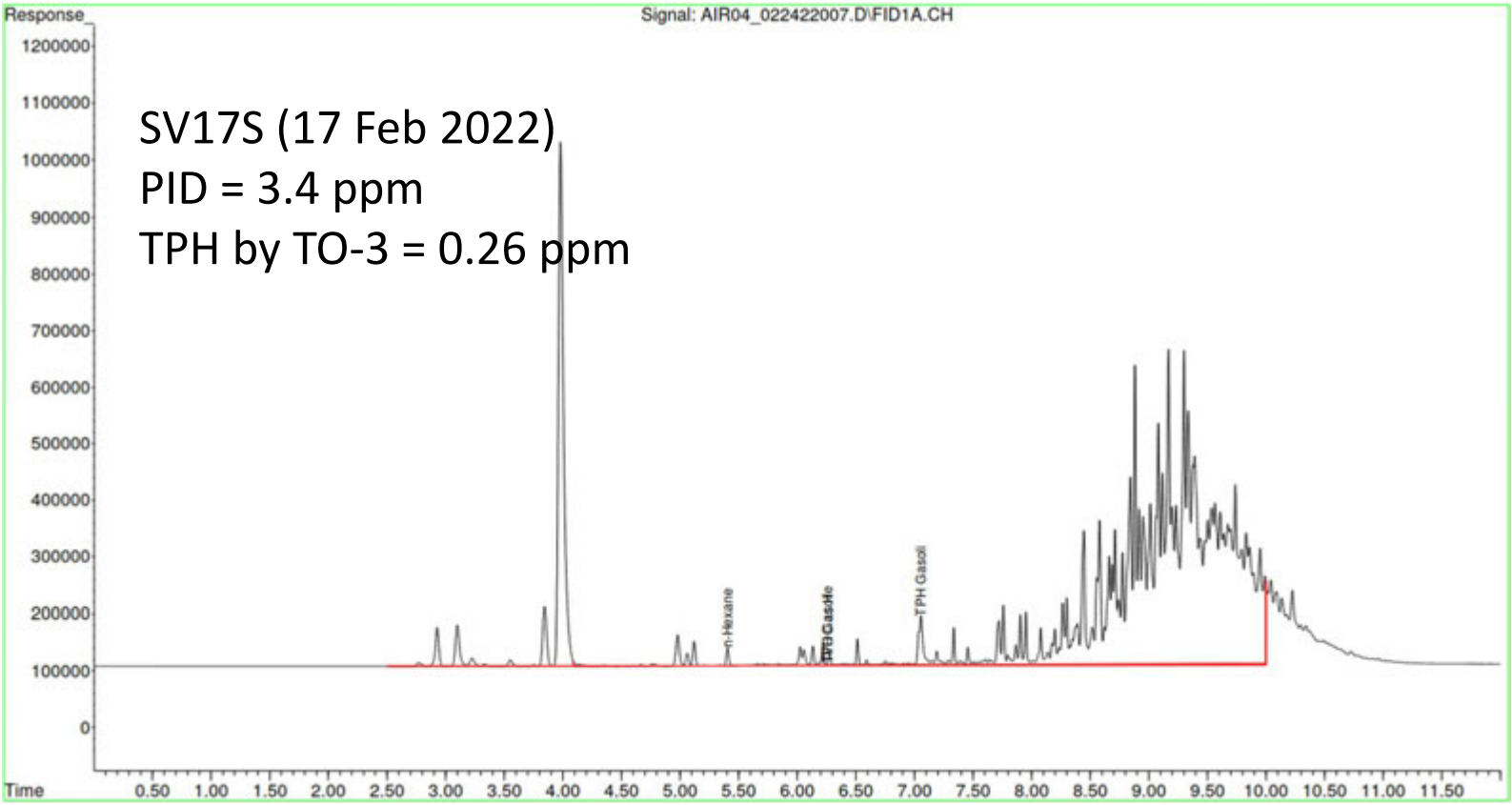
February 2022
Soil Vapor Samples

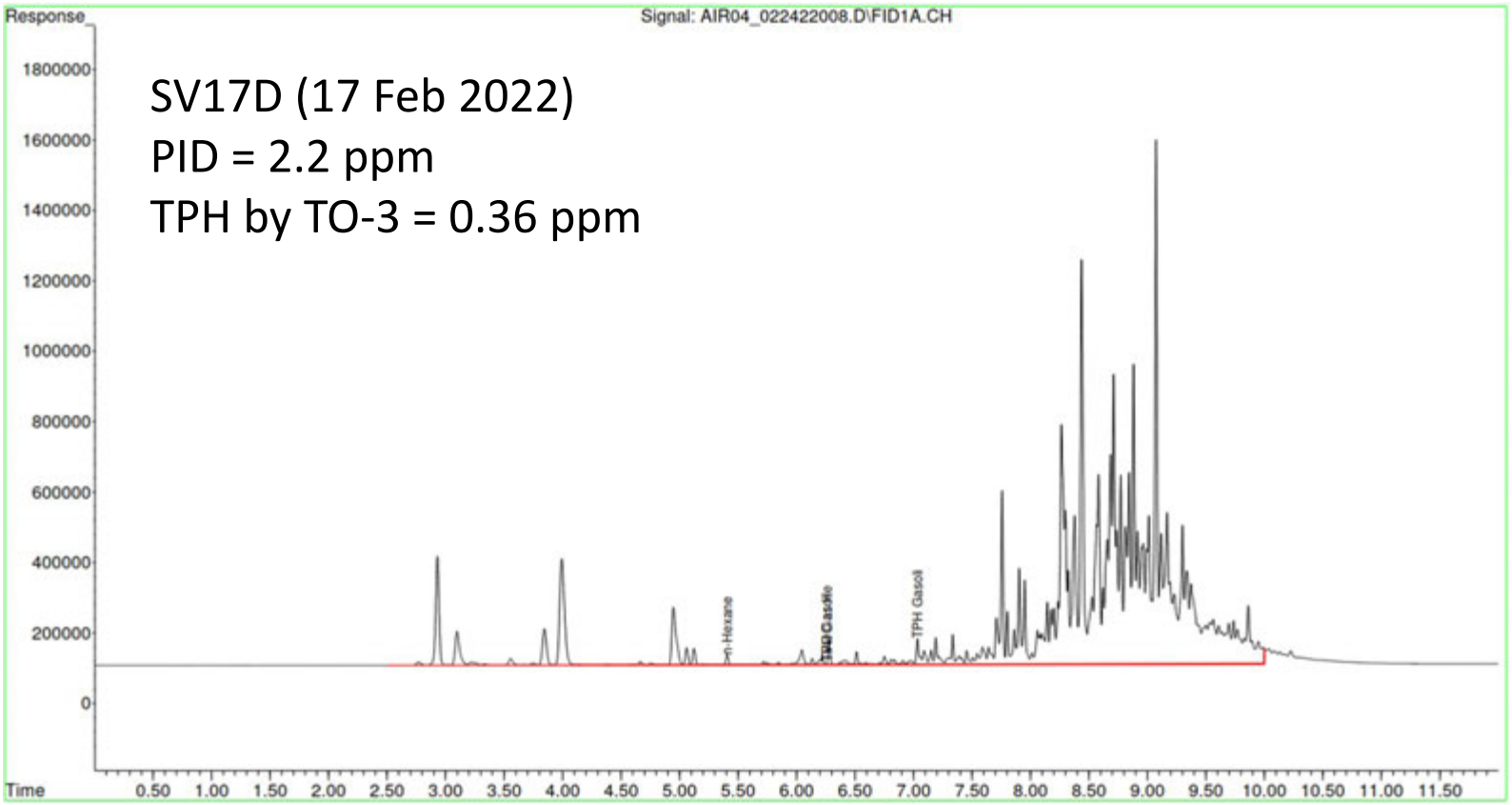
FID Chromatograms

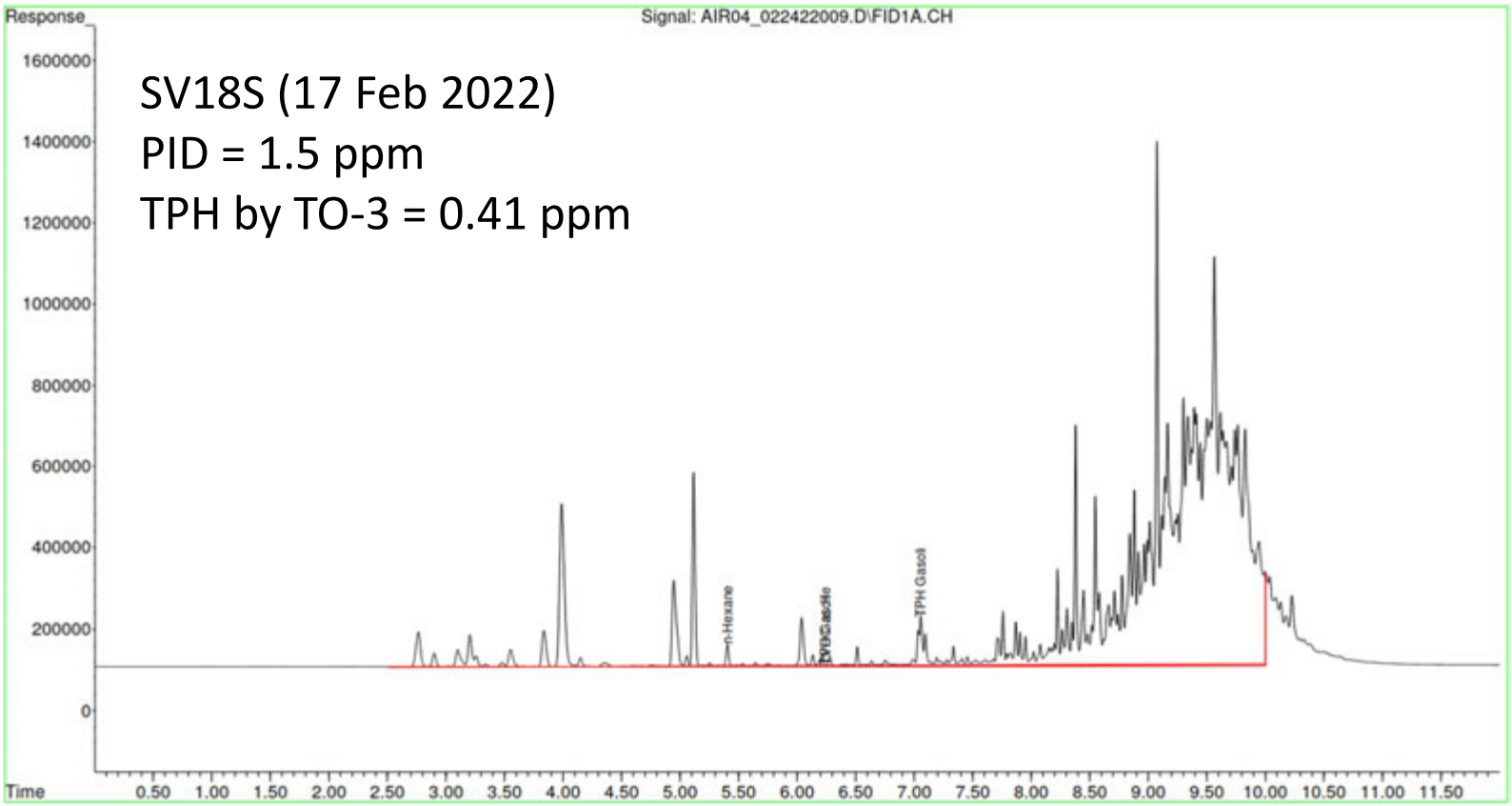

Signal: AIR04_022422004.D\FID1A.CH
Response
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

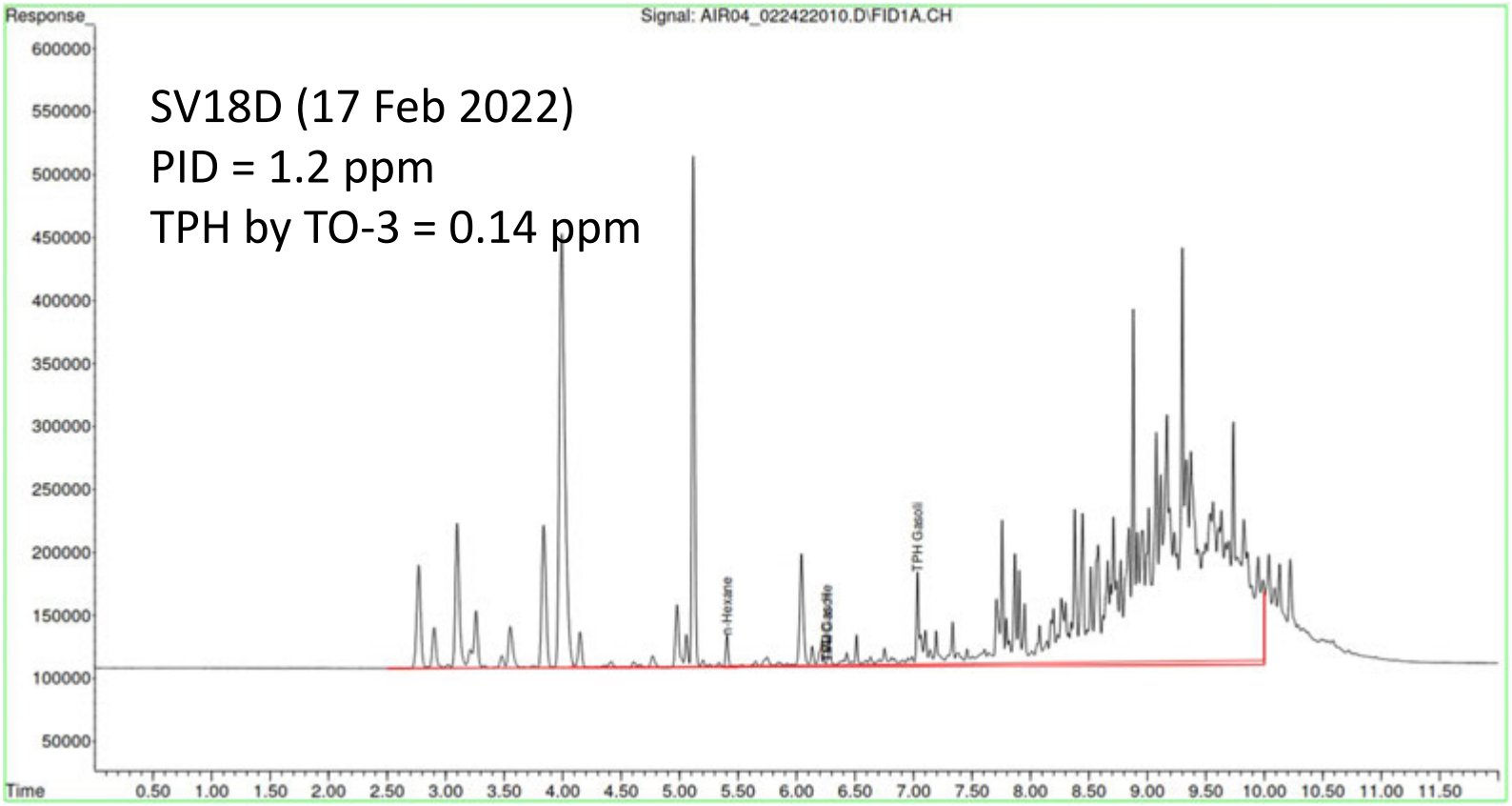

Signal: AIR04_022422005.D\FID1A.CH
Response
SV15S (17 Feb 2022)
PID = 0.16 ppm
TPH by TO-3 = <0.050 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

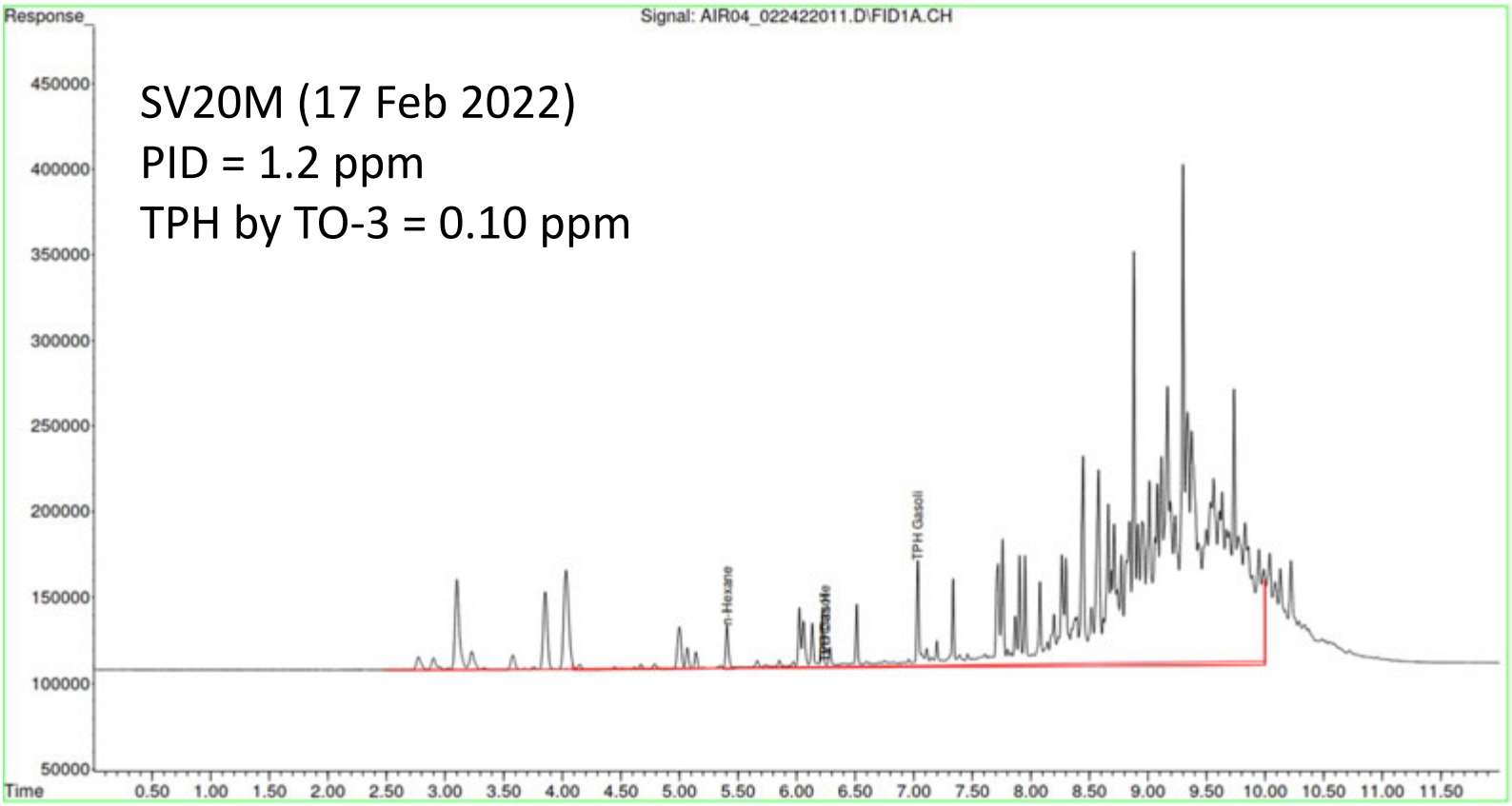

Signal: AIR04_022422006.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
SV15D (17 Feb 2022)
PID = .11 ppm
TPH by TO-3 = < 0.050 ppm

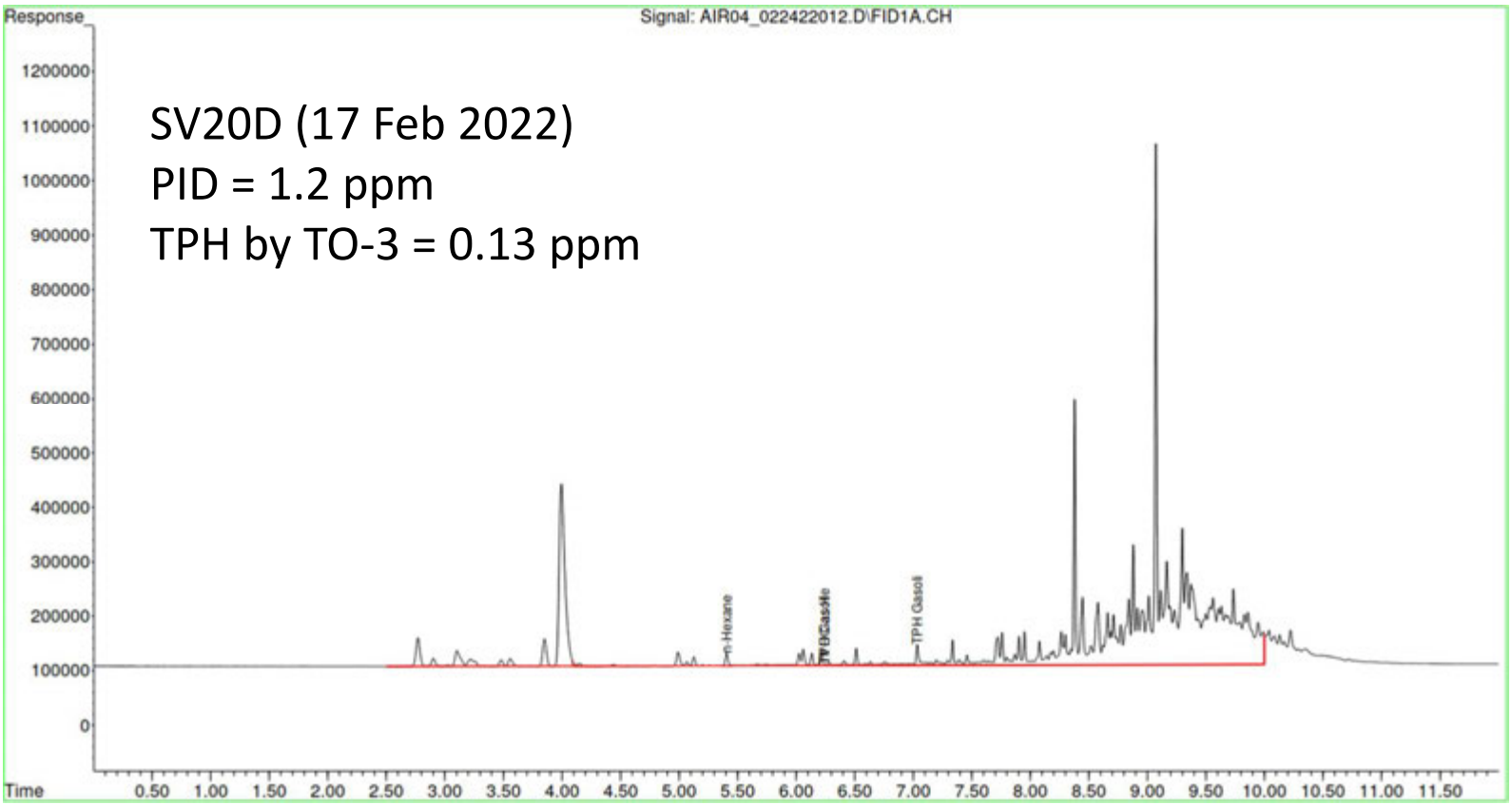

Signal: AIR04_022422007.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
SV17S (17 Feb 2022)
PID = 3.4 ppm
TPH by TO-3 = 0.26 ppm


Signal: AIR04_022422008.D\FID1A.CH
Response
SV17D (17 Feb 2022)
PID = 2.2 ppm
TPH by TO-3 = 0.36 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time


Signal: AIR04_022422009.D\FID1A.CH
Response
SV18S (17 Feb 2022)
PID = 1.5 ppm
TPH by TO-3 = 0.41 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

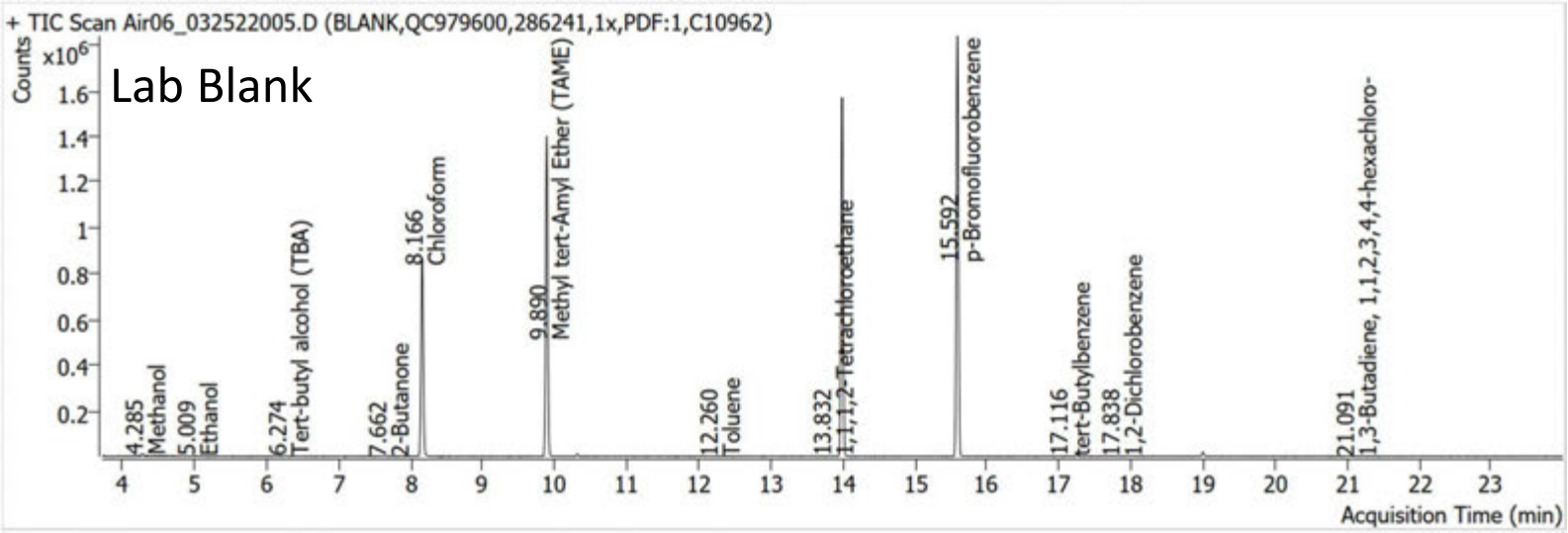

Response
Signal: AIR04_022422010.D\FID1A.CH
SV18D (17 Feb 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.14 ppm
n-Hexane
TPH Gasoli
Time

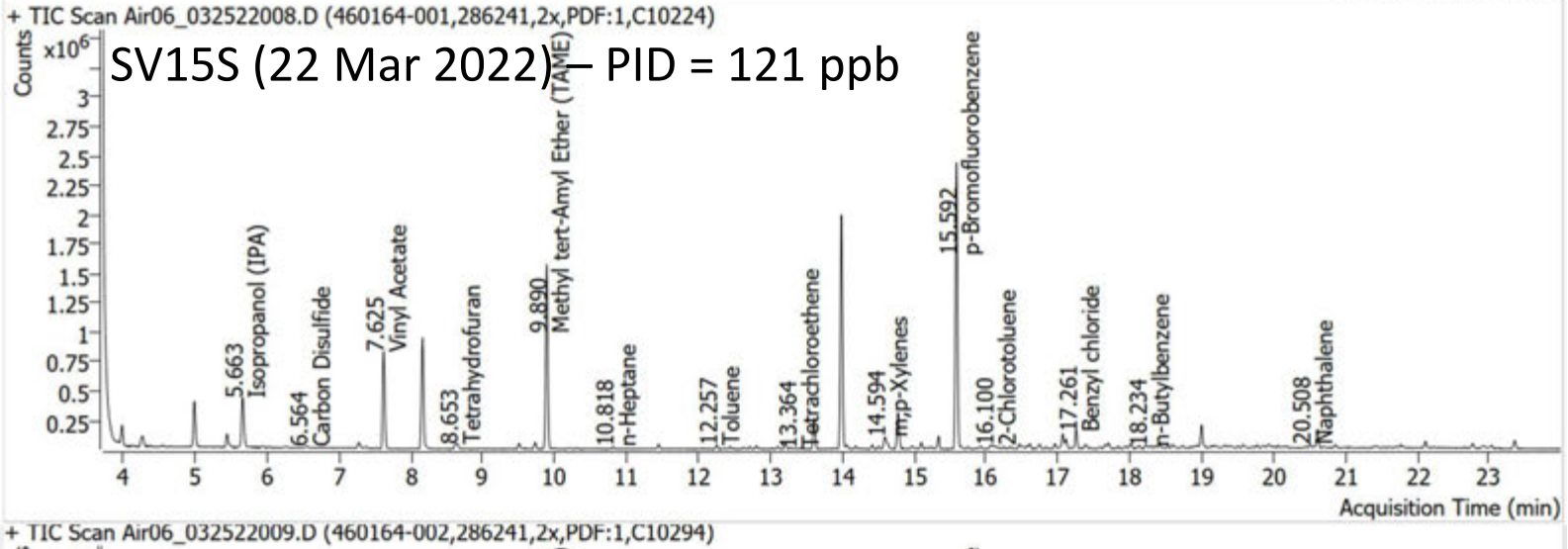

Response
Signal: AIR04_022422011.D\FID1A.CH
SV20M (17 Feb 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.10 ppm
n-Hexane
TPH Gasoli
Time

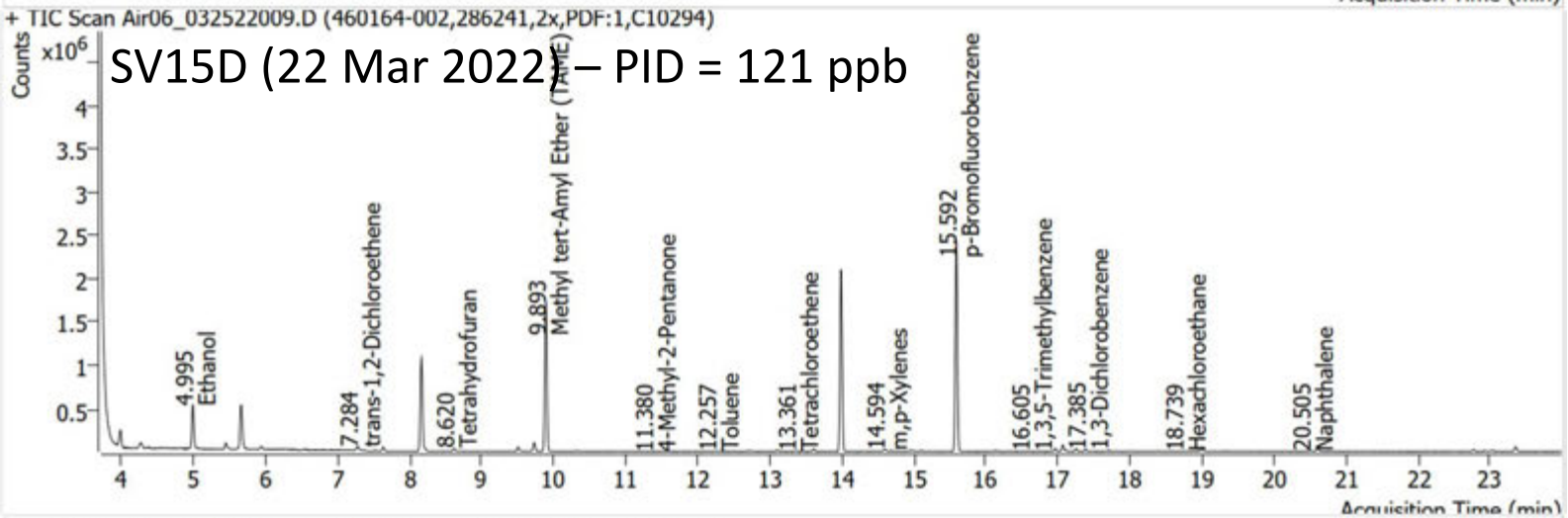

Signal: AIR04_022422012.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasol
SV20D (17 Feb 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.13 ppm

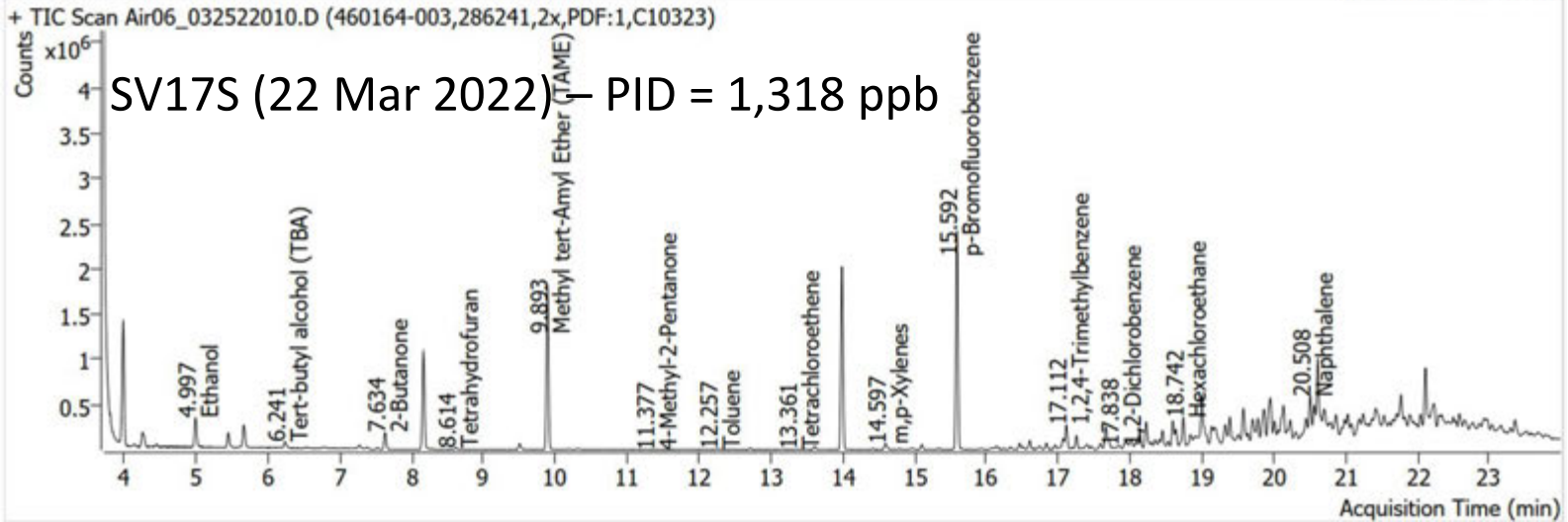
March 2022
Soil Vapor Samples

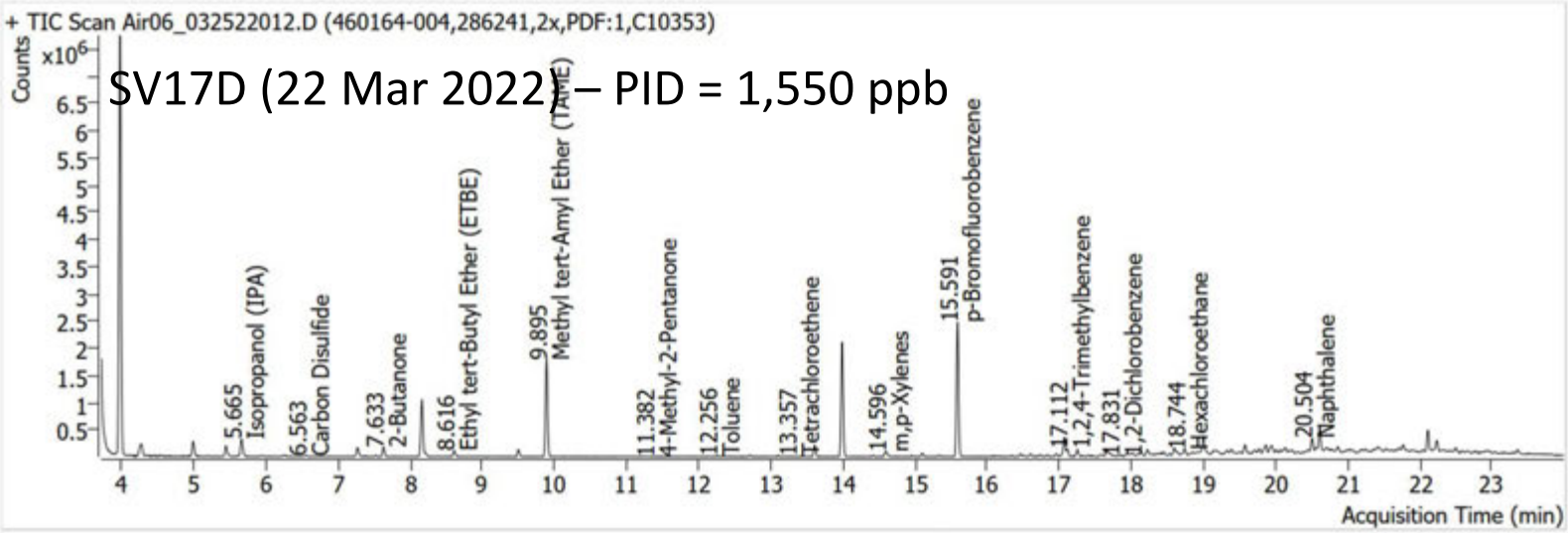
Mass Spec Chromatograms

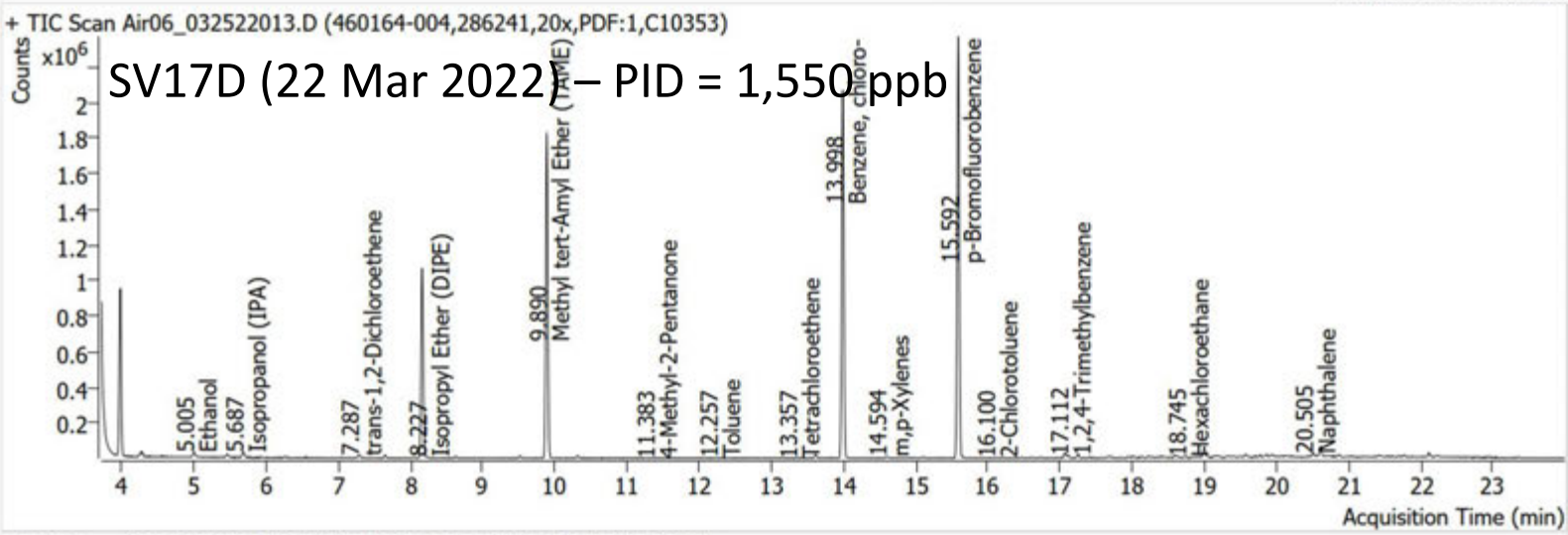

+ TIC Scan Air06_032522005.D (BLANK,QC979600,286241,1x,PDF:1,C10962)
Lab Blank
Counts
x10^6
4.285 Methanol
5.009 Ethanol
6.274 Tert-butyl alcohol (TBA)
7.662 2-Butanone
8.166 Chloroform
9.890 Methyl tert-Amyl Ether (TAME)
12.260 Toluene
13.832 1,1,1,2-Tetrachloroethane
15.592 p-Bromofluorobenzene
17.116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

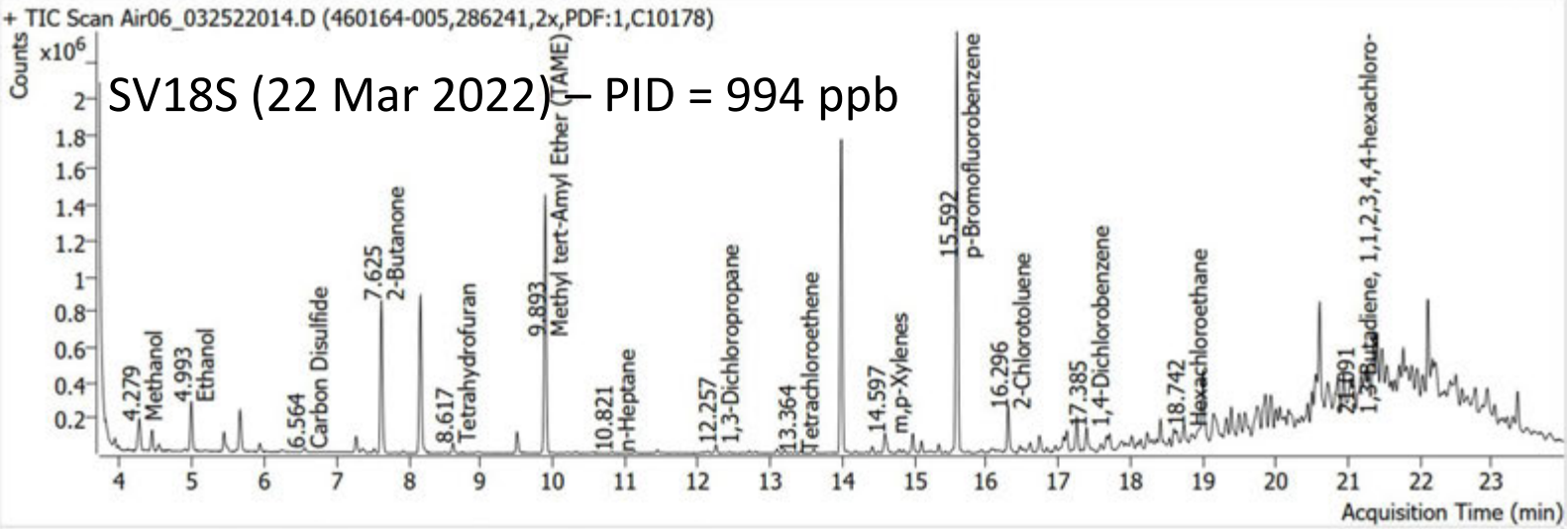

+ TIC Scan Air06_032522008.D (460164-001,286241,2x,PDF:1,C10224)
SV15S (22 Mar 2022) – PID = 121 ppb
Counts
x10^6
5.663 Isopropanol (IPA)
6.564 Carbon Disulfide
7.625 Vinyl Acetate
8.653 Tetrahydrofuran
9.890 Methyl tert-Amyl Ether (TAME)
10.818 n-Heptane
12.257 Toluene
13.364 Tetrachloroethene
14.594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

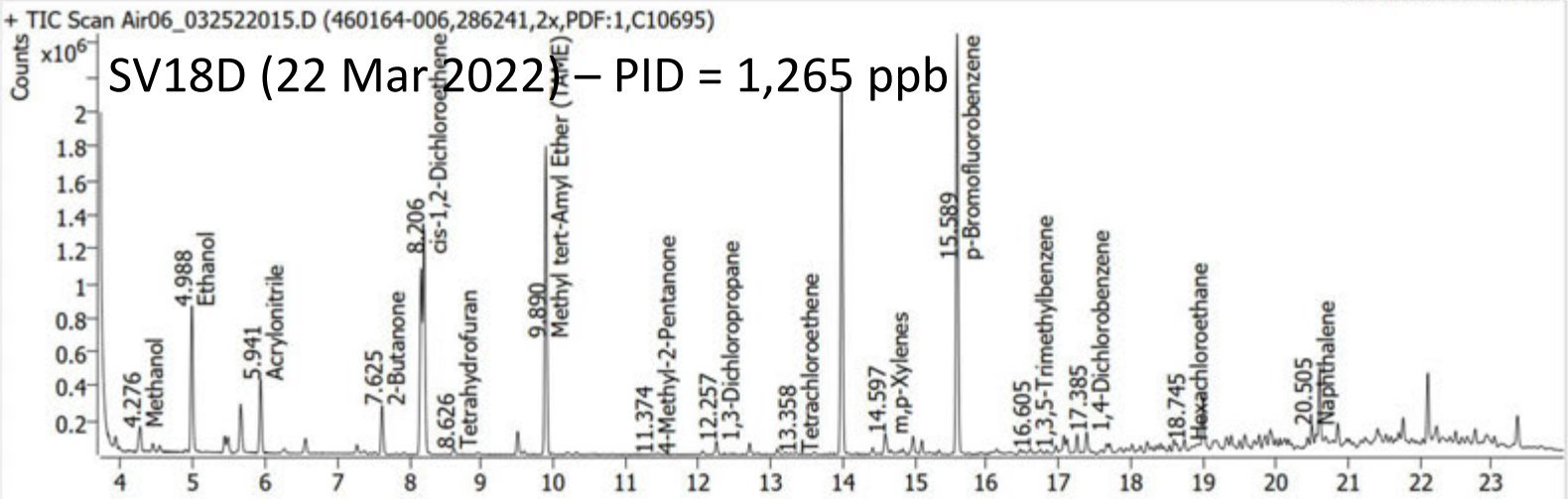

+ TIC Scan Air06_032522009.D (460164-002,286241,2x,PDF:1,C10294)
SV15D (22 Mar 2022) – PID = 121 ppb
Counts
x10^6
4.995 Ethanol
7.284 trans-1,2-Dichloroethene
8.620 Tetrahydrofuran
9.893 Methyl tert-Amyl Ether (TAME)
11.380 4-Methyl-2-Pentanone
12.257 Toluene
13.361 Tetrachloroethene
14.594 m,p-Xylenes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

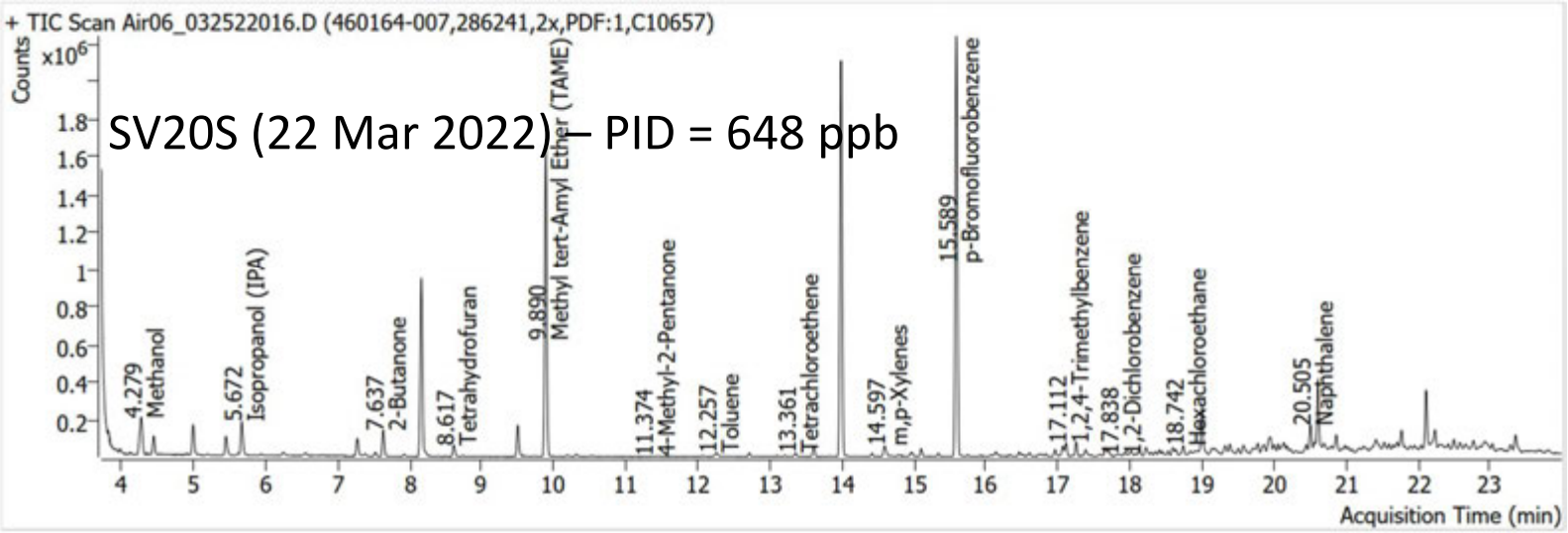

+ TIC Scan Air06_032522010.D (460164-003,286241,2x,PDF:1,C10323)
SV17S (22 Mar 2022) – PID = 1,318 ppb
Counts
x10^6
4.997 Ethanol
6.241 Tert-butyl alcohol (TBA)
7.634 2-Butanone
8.614 Tetrahydrofuran
9.893 Methyl tert-Amyl Ether (TAME)
11.377 4-Methyl-2-Pentanone
12.257 Toluene
13.361 Tetrachloroethene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

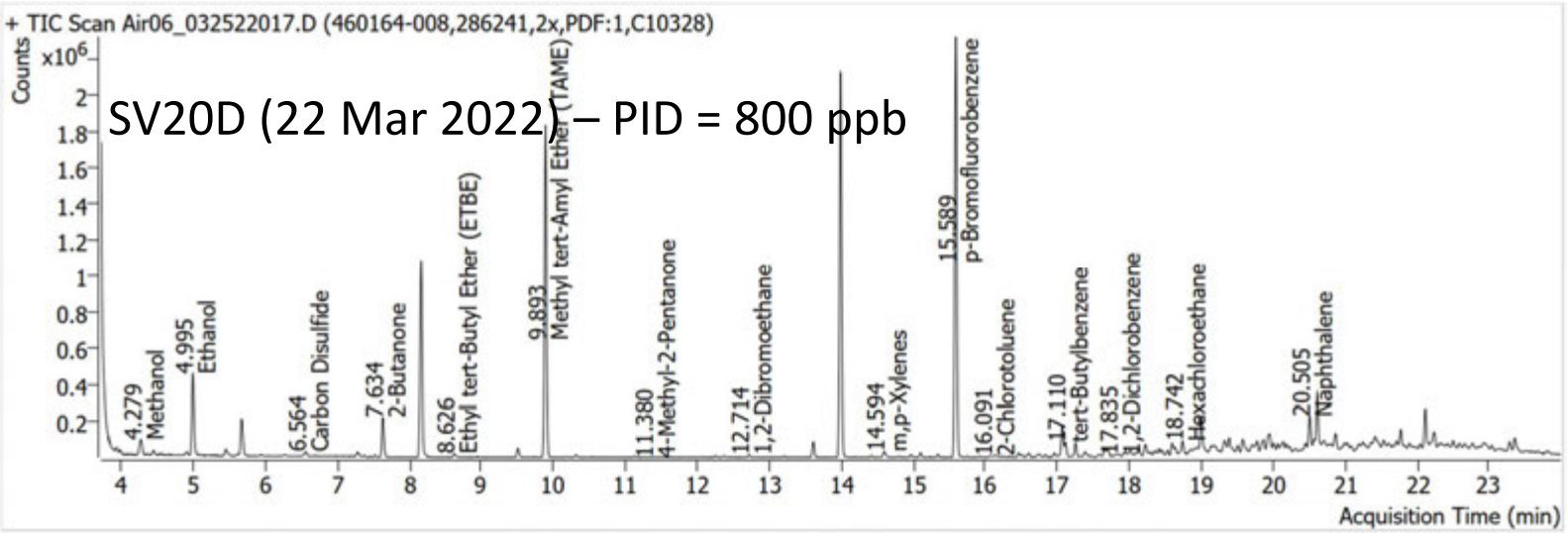

+ TIC Scan Air06_032522012.D (460164-004,286241,2x,PDF:1,C10353)
SV17D (22 Mar 2022) – PID = 1,550 ppb
Counts
x10^6
5.665 Isopropanol (IPA)
6.563 Carbon Disulfide
7.633 2-Butanone
8.616 Ethyl tert-Butyl Ether (ETBE)
9.895 Methyl tert-Amyl Ether (TAME)
11.382 4-Methyl-2-Pentanone
12.256 Toluene
13.357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

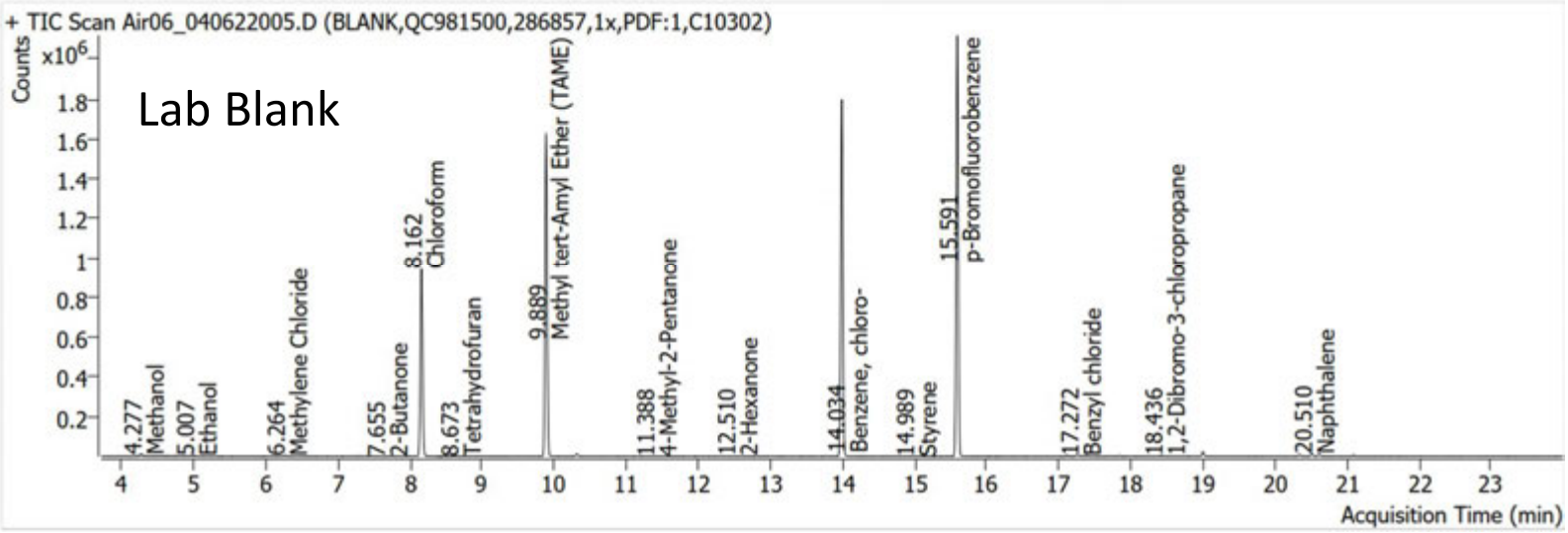

+ TIC Scan Air06_032522013.D (460164-004,286241,20x,PDF:1,C10353)
SV17D (22 Mar 2022) – PID = 1,550 ppb
Counts
x10^6
5.005 Ethanol
5.687 Isopropanol (IPA)
7.287 trans-1,2-Dichloroethene
8.227 Isopropyl Ether (DIPE)
9.890 Methyl tert-Amyl Ether (TAME)
11.383 4-Methyl-2-Pentanone
12.257 Toluene
13.357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

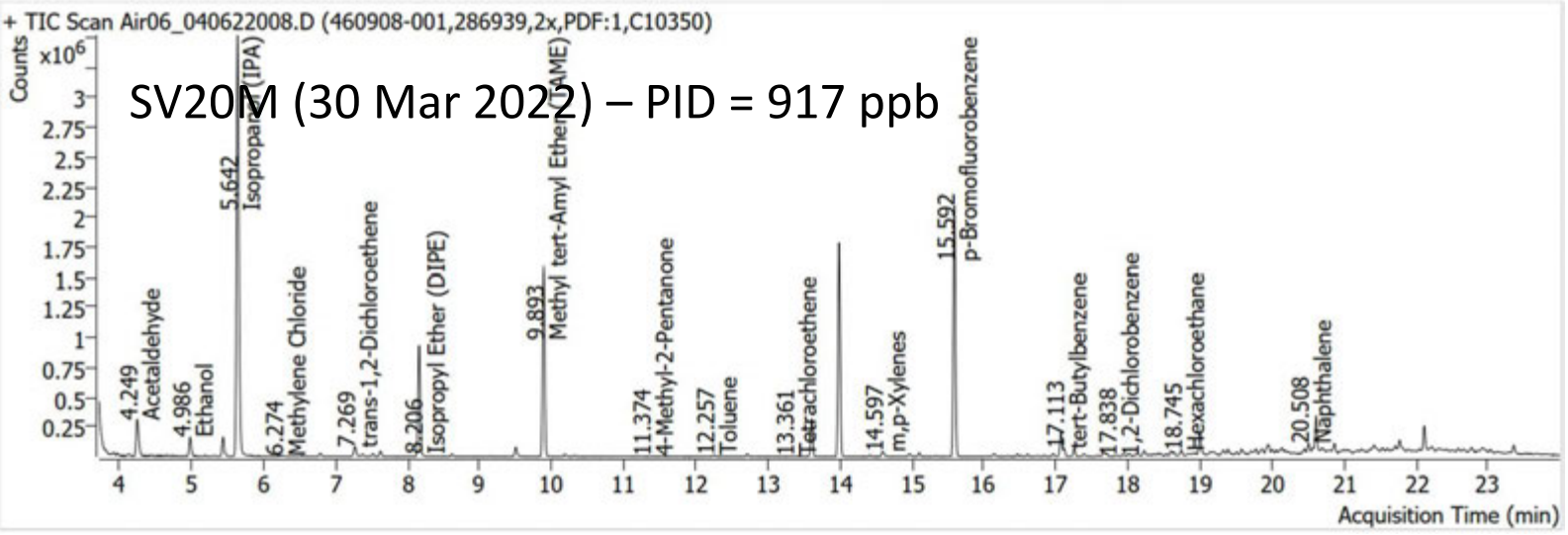

+ TIC Scan Air06_032522014.D (460164-005,286241,2x,PDF:1,C10178)
SV18S (22 Mar 2022) – PID = 994 ppb
Counts
x10^6
4.279 Methanol
4.993 Ethanol
6.564 Carbon Disulfide
7.625 2-Butanone
8.617 Tetrahydrofuran
9.893 Methyl tert-Amyl Ether (TAME)
10.821 n-Heptane
12.257 1,3-Dichloropropane
13.364 Tetrachloroethene
14.597 m,p-Xylenes
15.592 p-Bromofluorobenzene
16.296 2-Chlorotoluene
17.385 1,4-Dichlorobenzene
18.742 Hexachloroethane
20.991 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

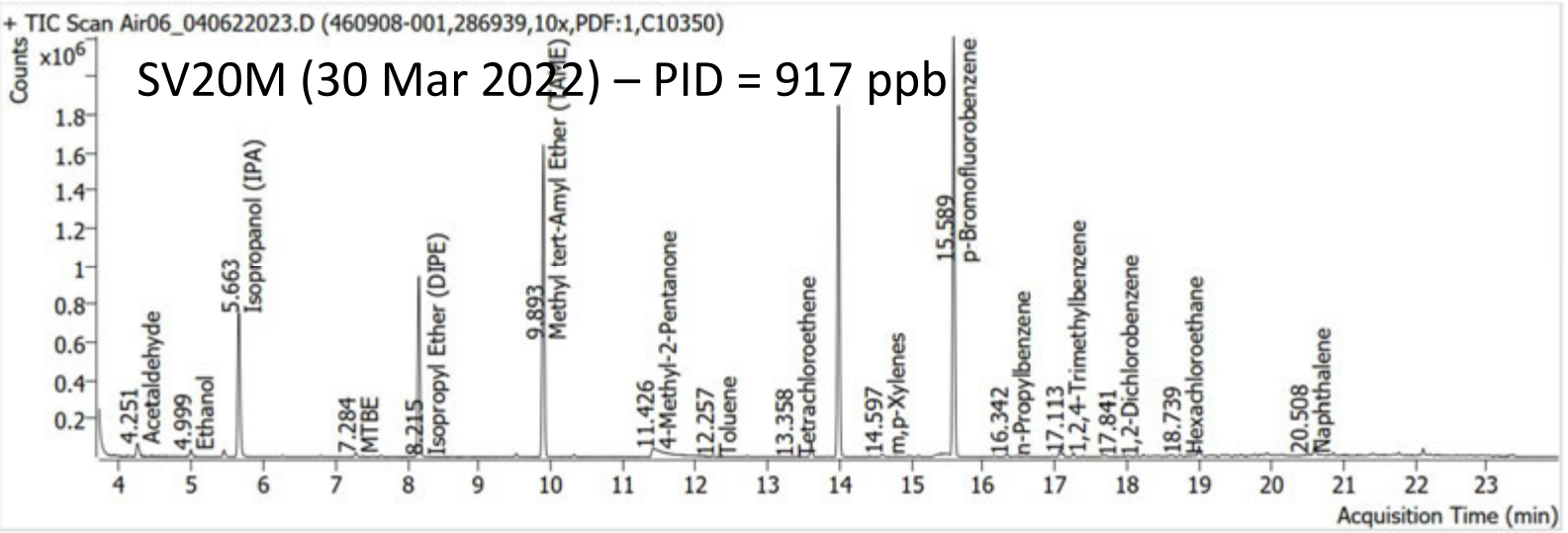

+ TIC Scan Air06_032522015.D (460164-006,286241,2x,PDF:1,C10695)
SV18D (22 Mar 2022) – PID = 1,265 ppb
Counts
x10^6
4.276 Methanol
4.988 Ethanol
5.941 Acrylonitrile
7.625 2-Butanone
8.206 cis-1,2-Dichloroethene
8.626 Tetrahydrofuran
9.890 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257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


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


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

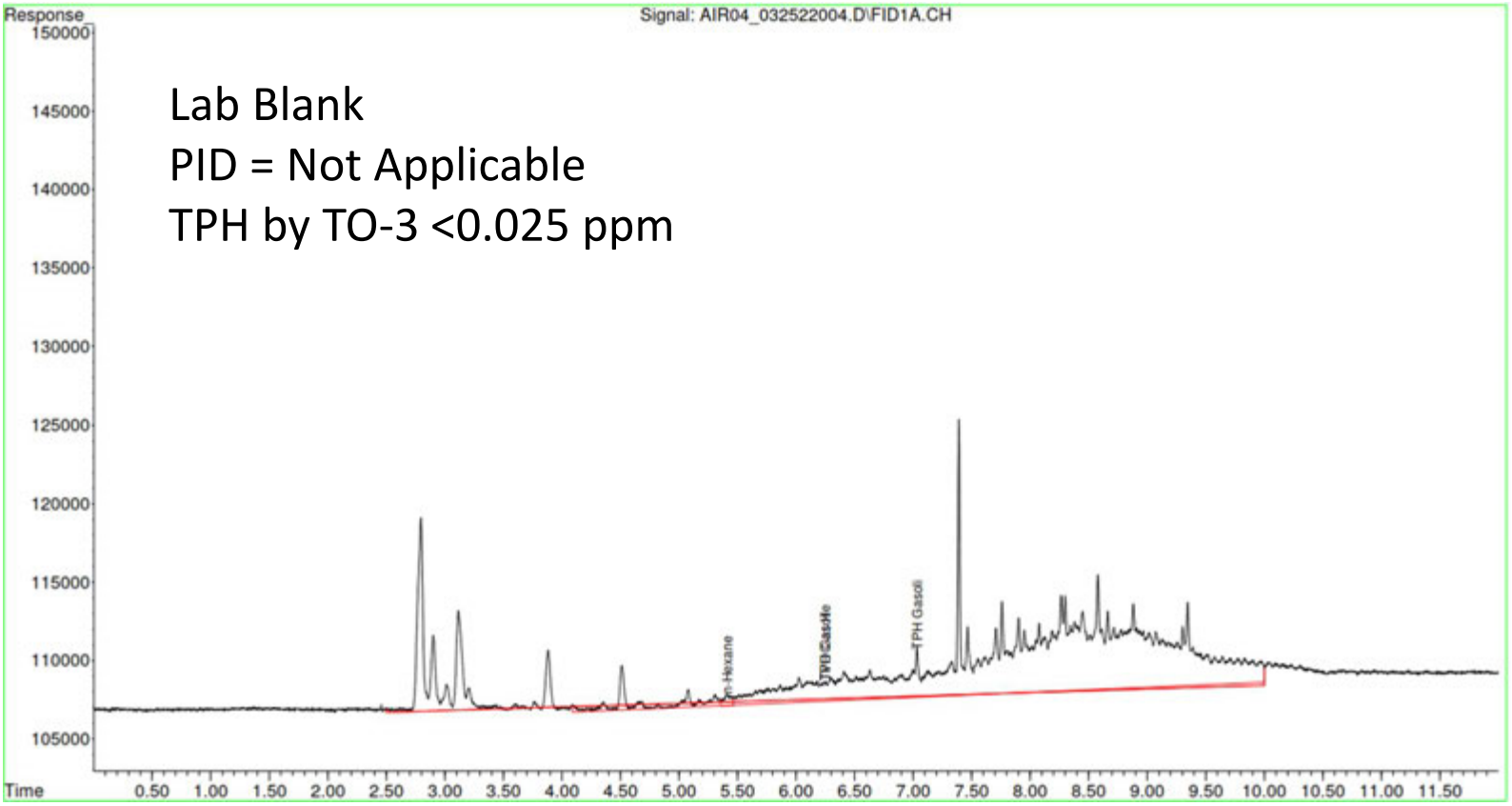

+ TIC Scan Air06_040622005.D (BLANK,QC981500,286857,1x,PDF:1,C10302)
Lab Blank
Counts
x10^6
4.277 Methanol
5.007 Ethanol
6.264 Methylene Chloride
7.655 2-Butanone
8.162 Chloroform
8.673 Tetrahydrofuran
9.889 Methyl tert-Amyl Ether (TAME)
11.388 4-Methyl-2-Pentanone
12.510 2-Hexanone
14.034 Benzene, chloro-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

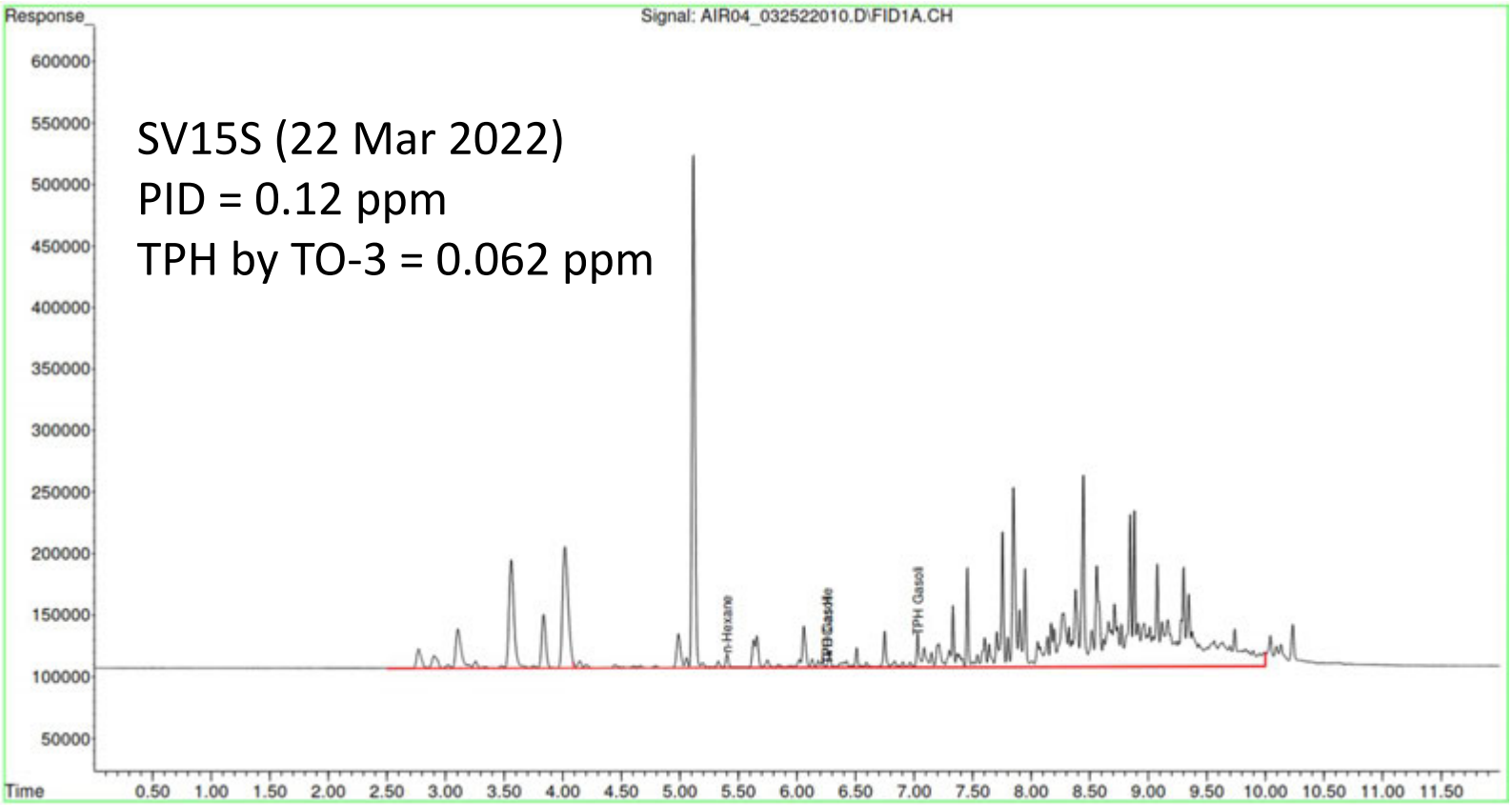

+ TIC Scan Air06_040622008.D (460908-001,286939,2x,PDF:1,C10350)
SV20M (30 Mar 2022) – PID = 917 ppb
Counts
x10^6
4.249 Acetaldehyde
4.986 Ethanol
5.642 Isopropanol (IPA)
6.274 Methylene Chloride
7.269 trans-1,2-Dichloroethene
8.206 Isopropyl Ether (DIPE)
9.893 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone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

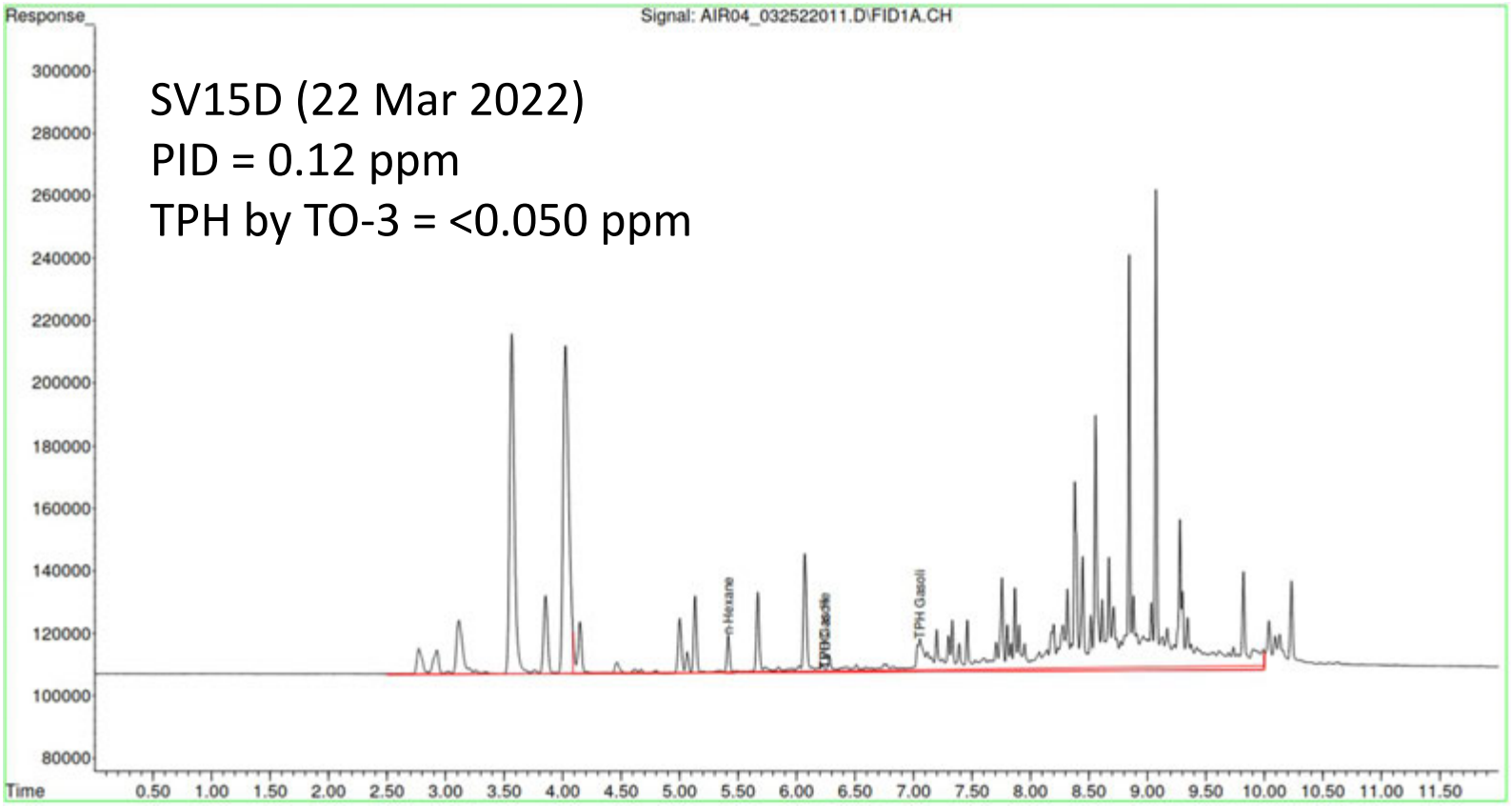

+ TIC Scan Air06_040622023.D (460908-001,286939,10x,PDF:1,C10350)
SV20M (30 Mar 2022) – PID = 917 ppb
Counts
x10^6
4.251 Acetaldehyde
4.999 Ethanol
5.663 Isopropanol (IPA)
7.284 MTBE
8.215 Isopropyl Ether (DIPE)
9.893 Methyl tert-Amyl Ether (TAME)
11.426 4-Methyl-2-Pentanone
12.257 Toluene
13.358 Tetrachloroethene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

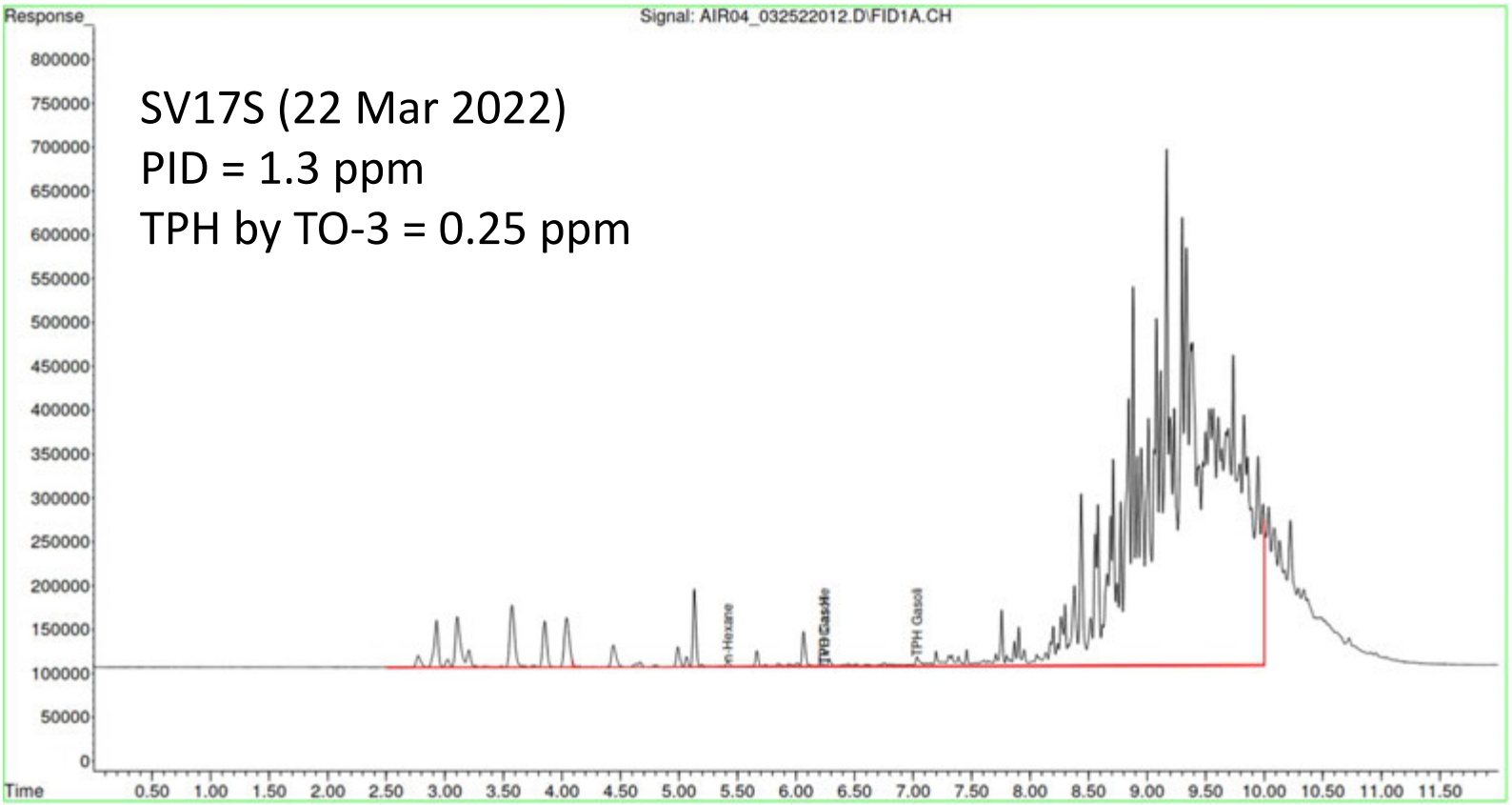
March 2022
Soil Vapor Samples

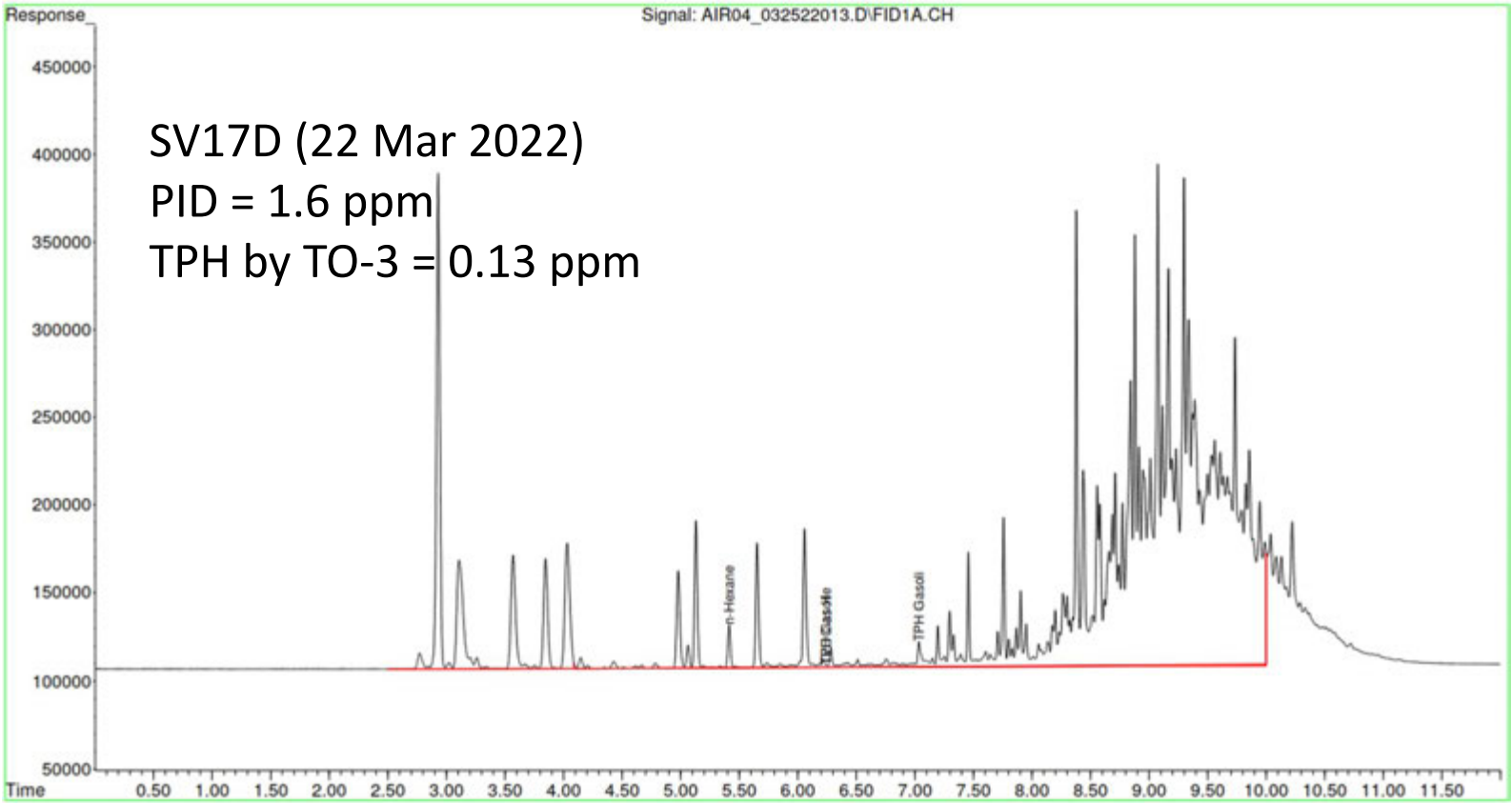
FID Chromatograms

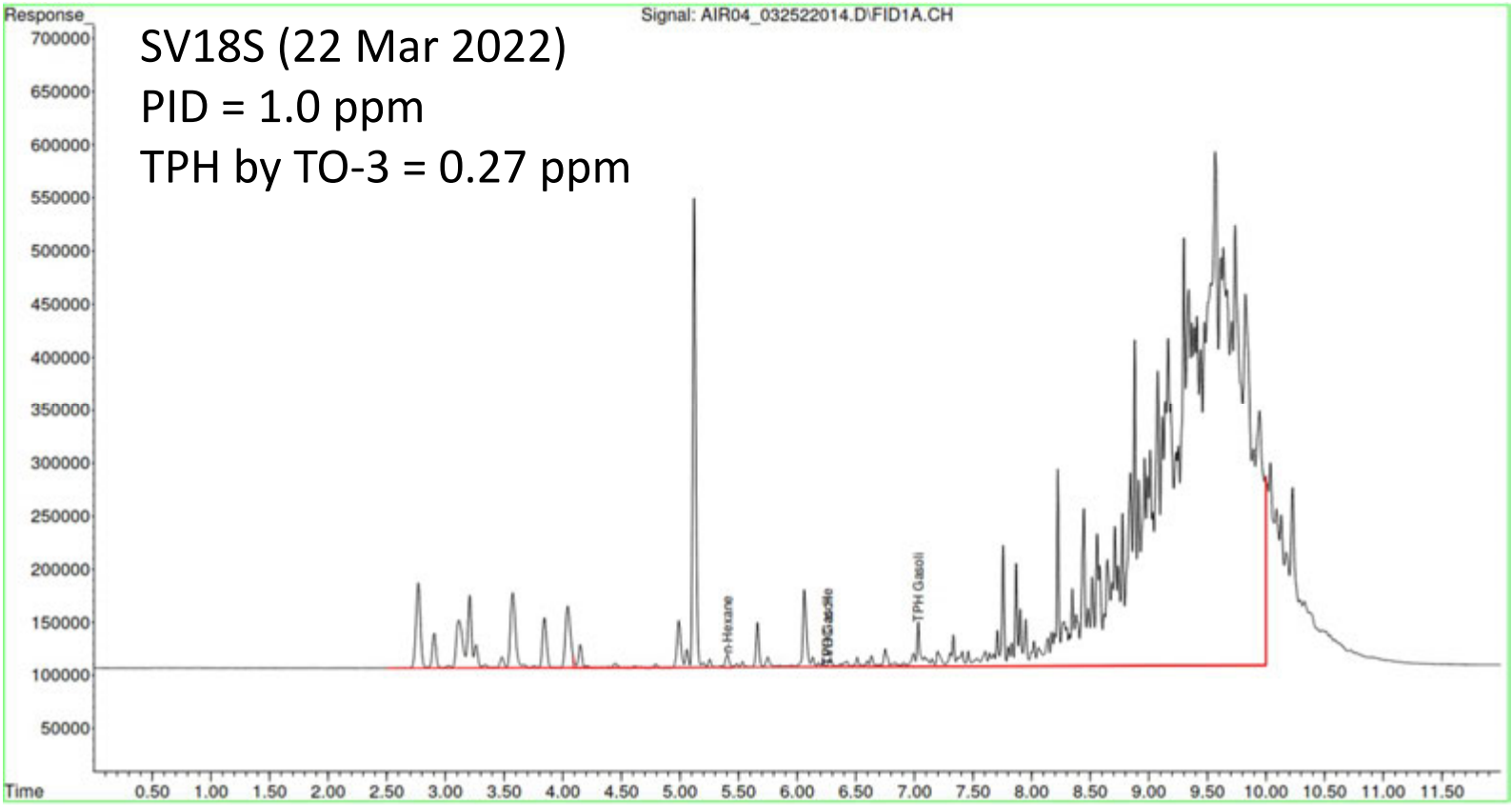

Signal: AIR04_032522004.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

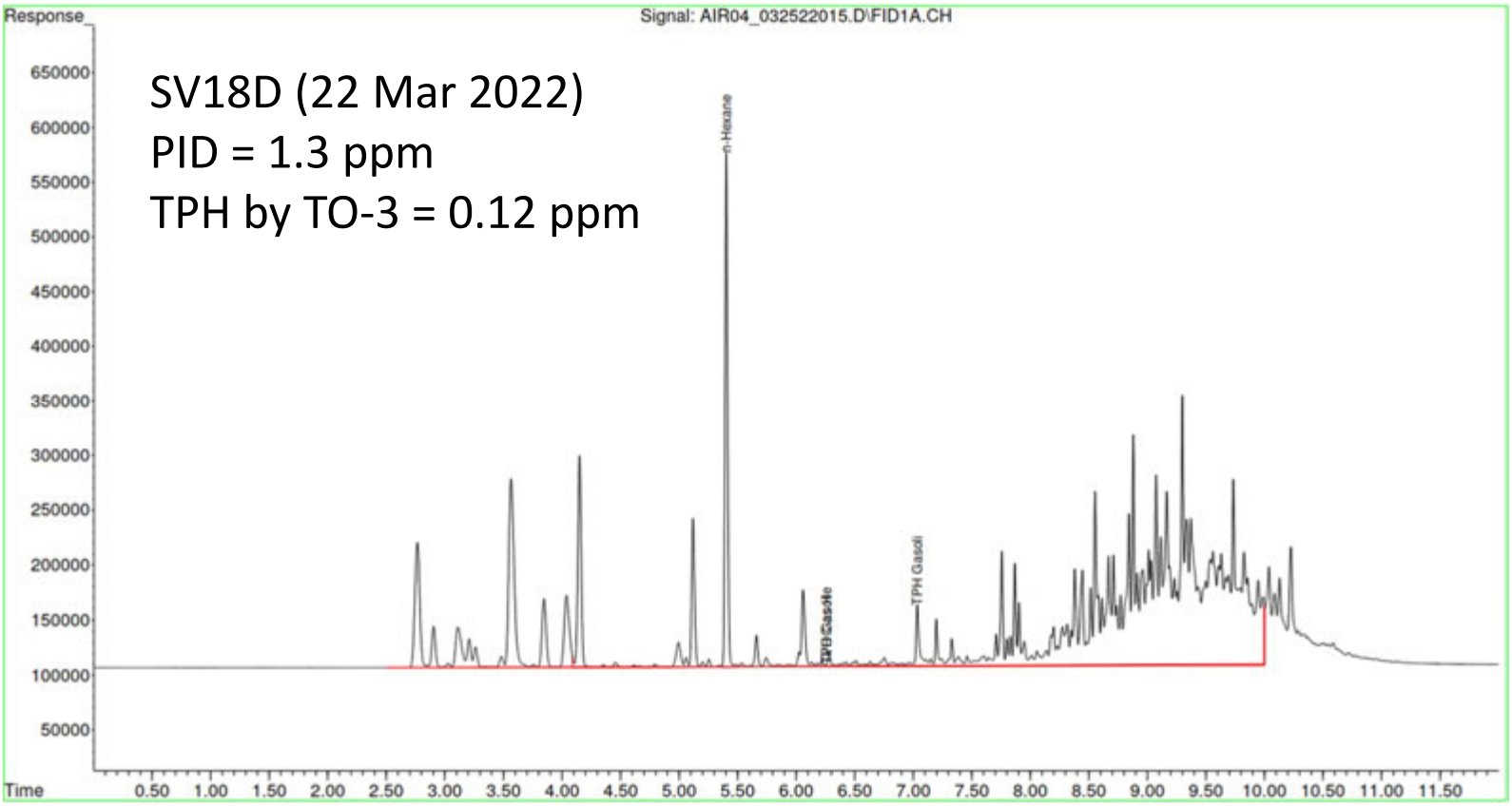

Signal: AIR04_032522010.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
SV15S (22 Mar 2022)
PID = 0.12 ppm
TPH by TO-3 = 0.062 ppm

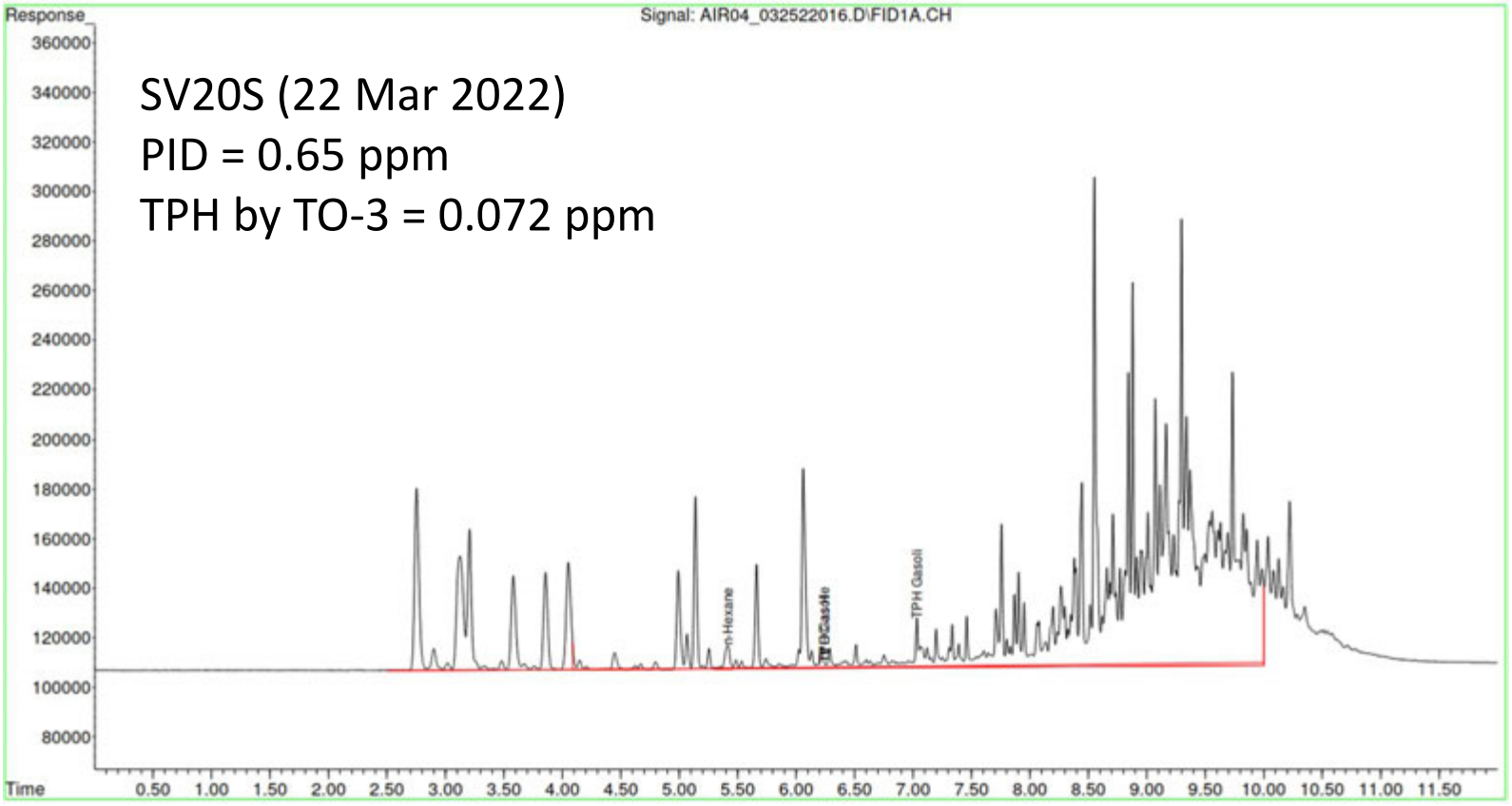

Signal: AIR04_032522011.D\FID1A.CH
Response
SV15D (22 Mar 2022)
PID = 0.12 ppm
TPH by TO-3 = <0.050 ppm
n-Hexane
TPH Gasoil
Time

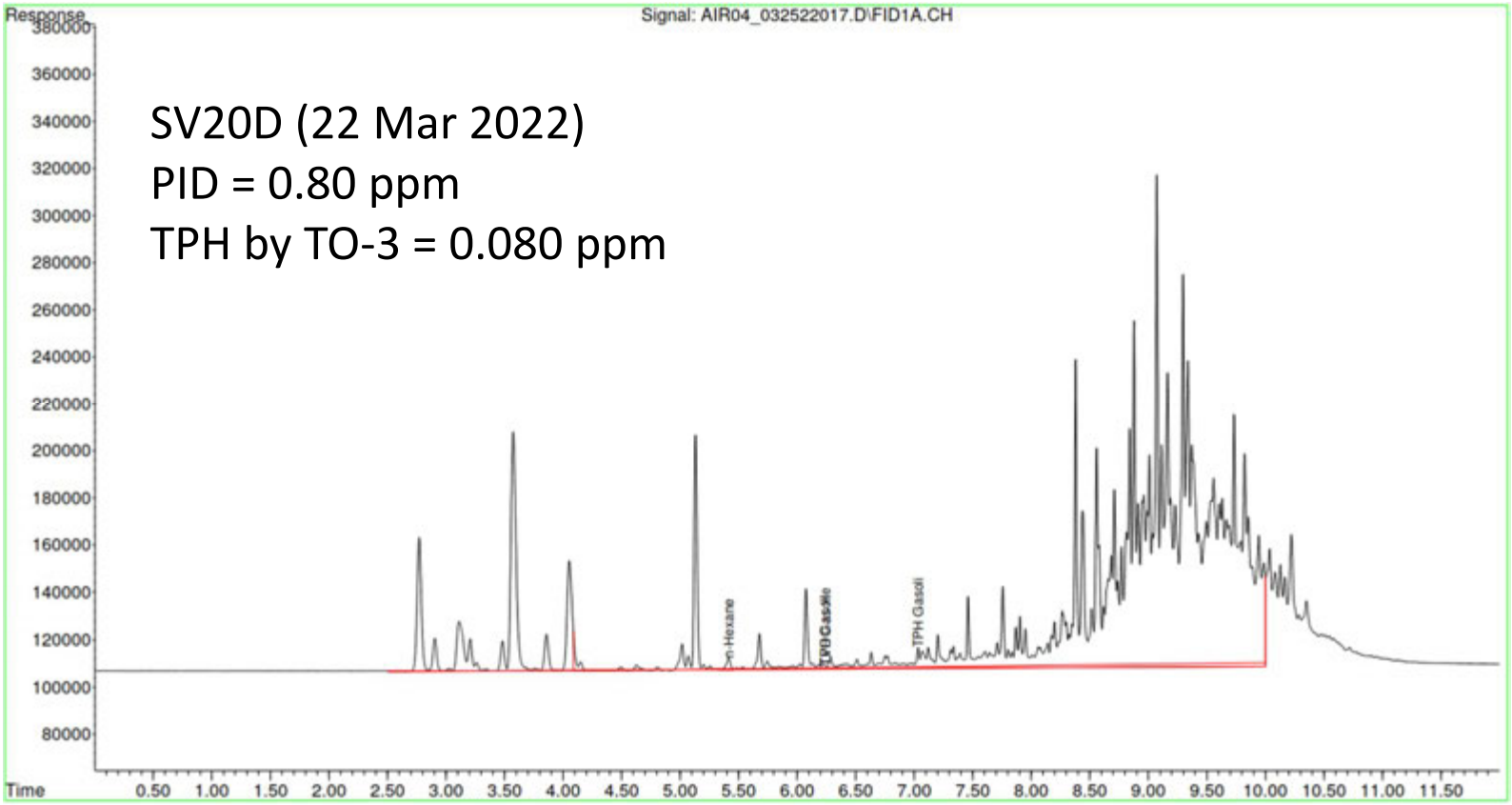

Signal: AIR04_032522012.D\FID1A.CH
Response
SV17S (22 Mar 2022)
PID = 1.3 ppm
TPH by TO-3 = 0.25 ppm
n-Hexane
TPH Gasoil
Time

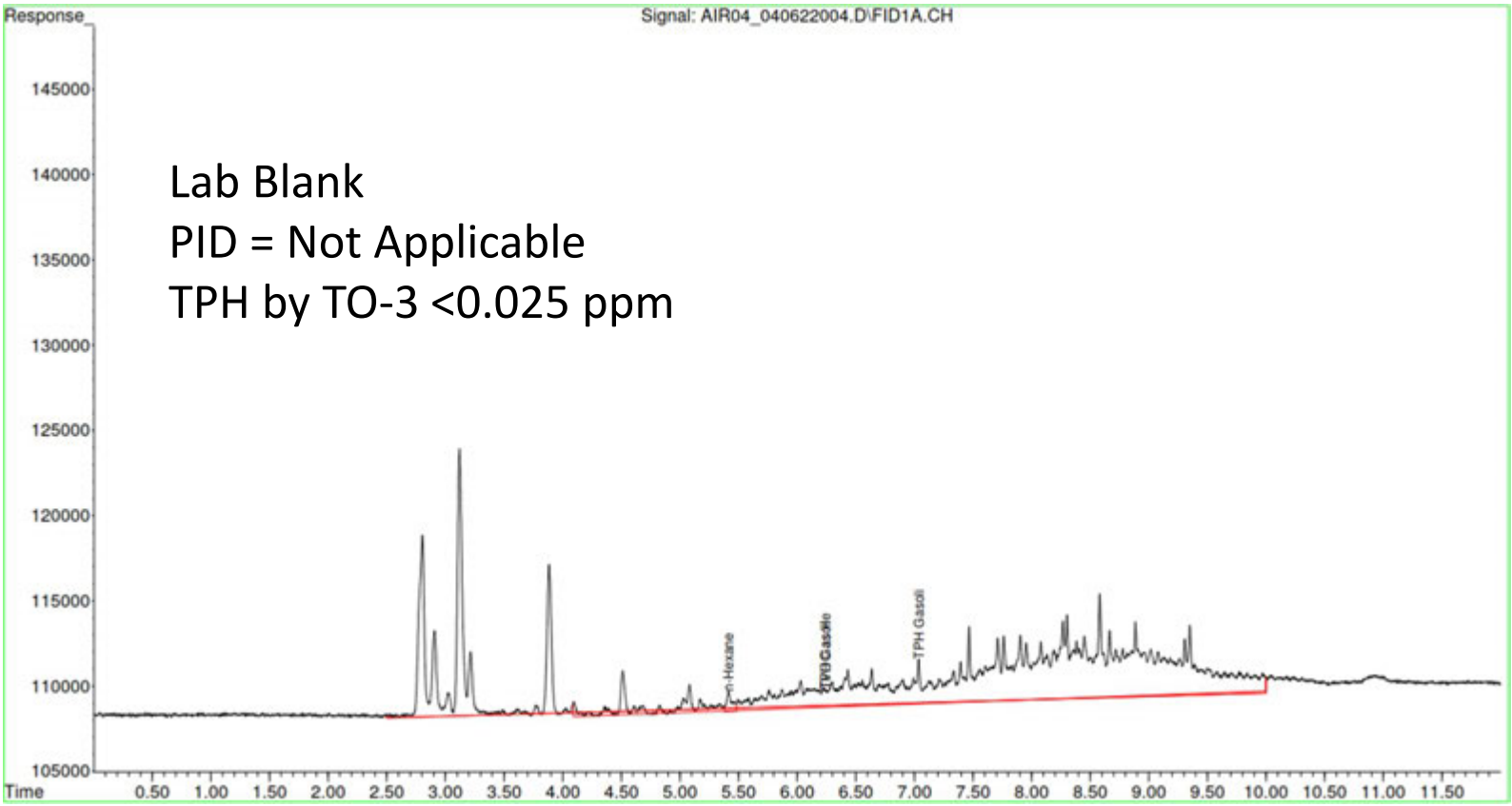

Signal: AIR04_032522013.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoline
TPH Gasoil
SV17D (22 Mar 2022)
PID = 1.6 ppm
TPH by TO-3 = 0.13 ppm

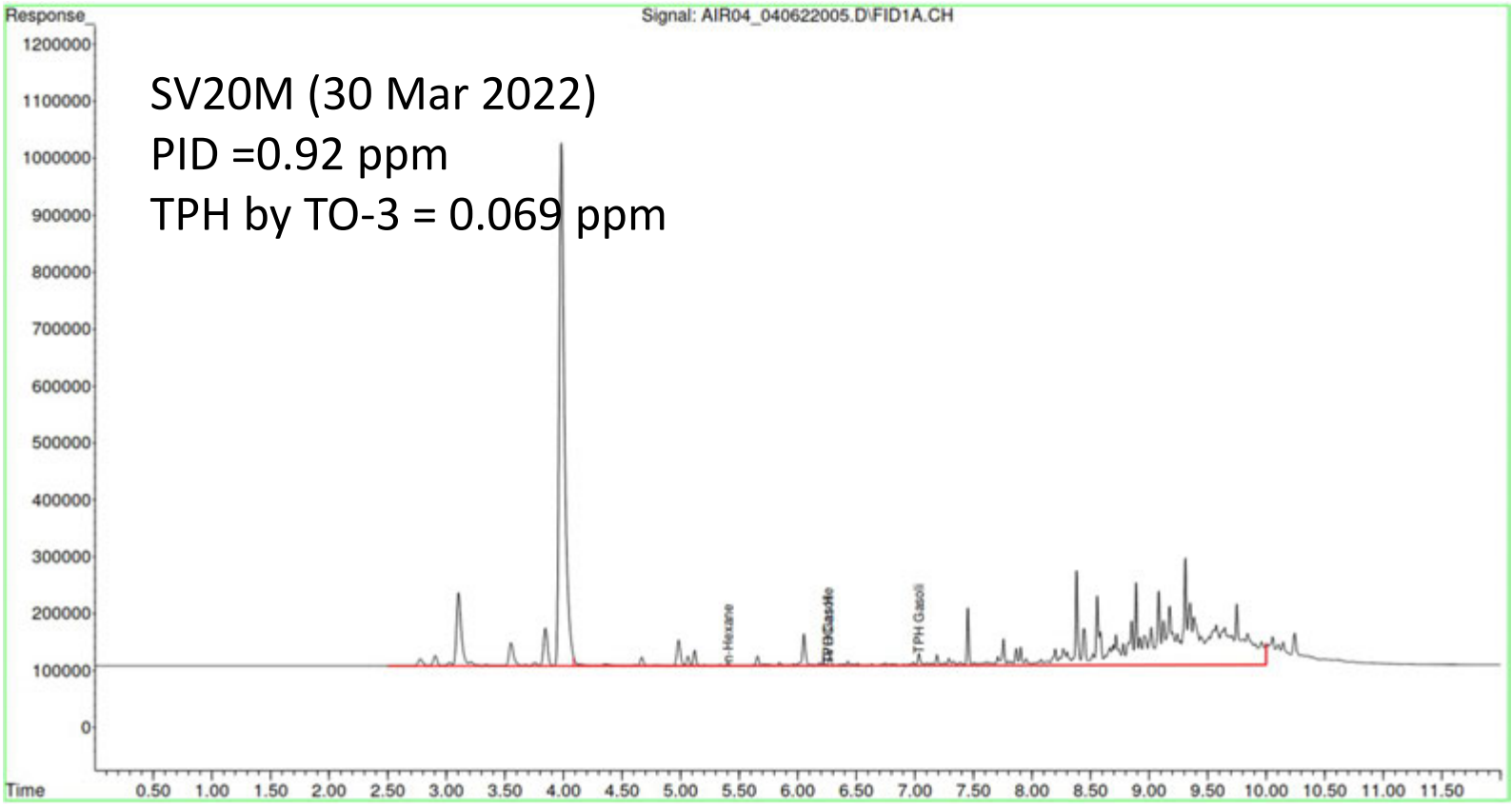

Signal: AIR04_032522014.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoline
TPH Gasoil
SV18S (22 Mar 2022)
PID = 1.0 ppm
TPH by TO-3 = 0.27 ppm


Signal: AIR04_032522015.D\FID1A.CH
Response
Time
SV18D (22 Mar 2022)
PID = 1.3 ppm
TPH by TO-3 = 0.12 ppm
n-Hexane
TPH Gasoline
TPH Gasoli


Signal: AIR04_032522016.D\FID1A.CH
Response
Time
SV20S (22 Mar 2022)
PID = 0.65 ppm
TPH by TO-3 = 0.072 ppm
n-Hexane
TPH Gasoline
TPH Gasoli

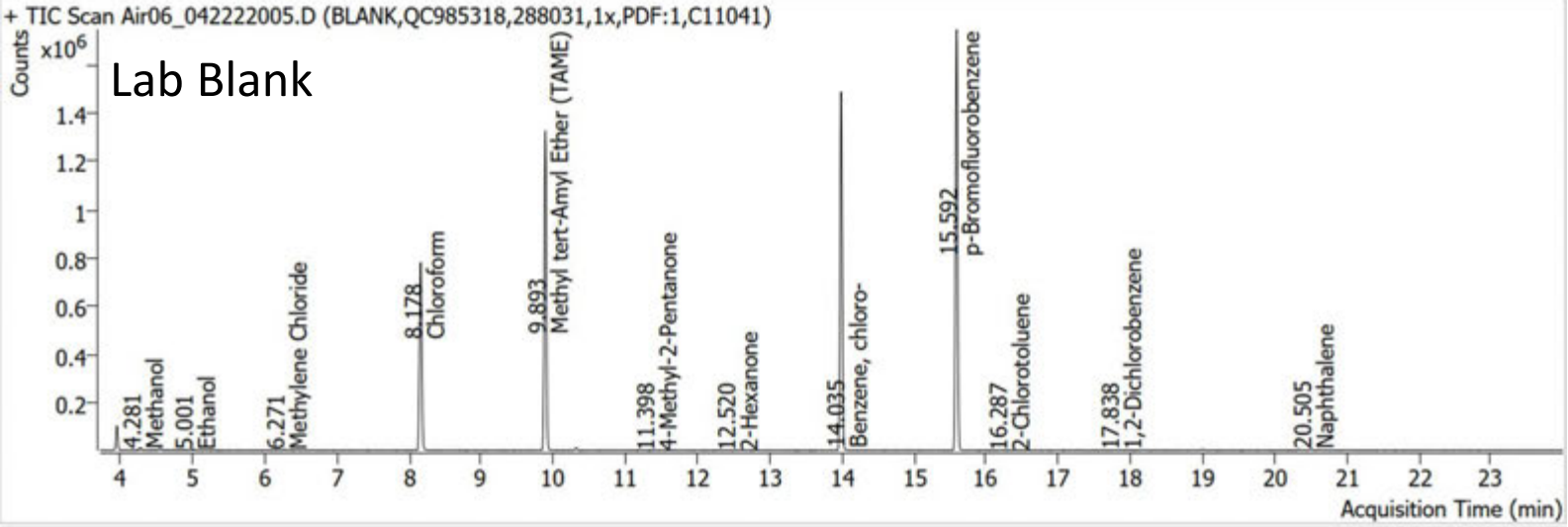

Signal: AIR04_032522017.D\FID1A.CH
Response
Time
SV20D (22 Mar 2022)
PID = 0.80 ppm
TPH by TO-3 = 0.080 ppm
n-Hexane
TPH Gasoli

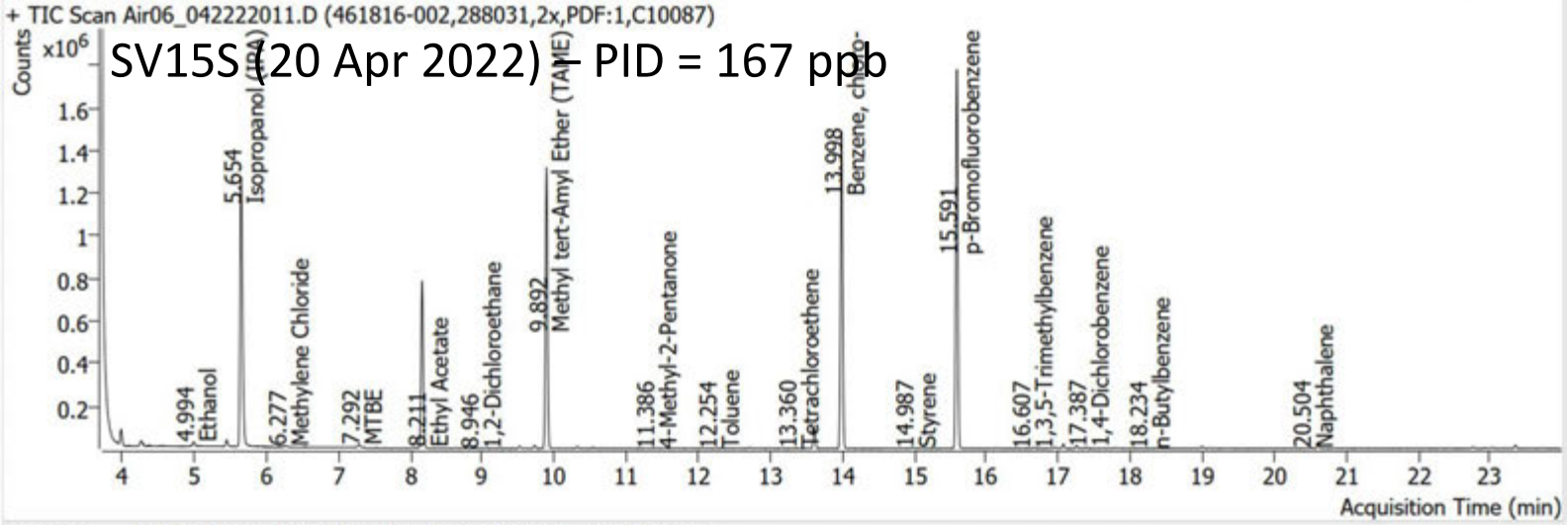

Signal: AIR04_040622004.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoline
TPH Gasoil
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

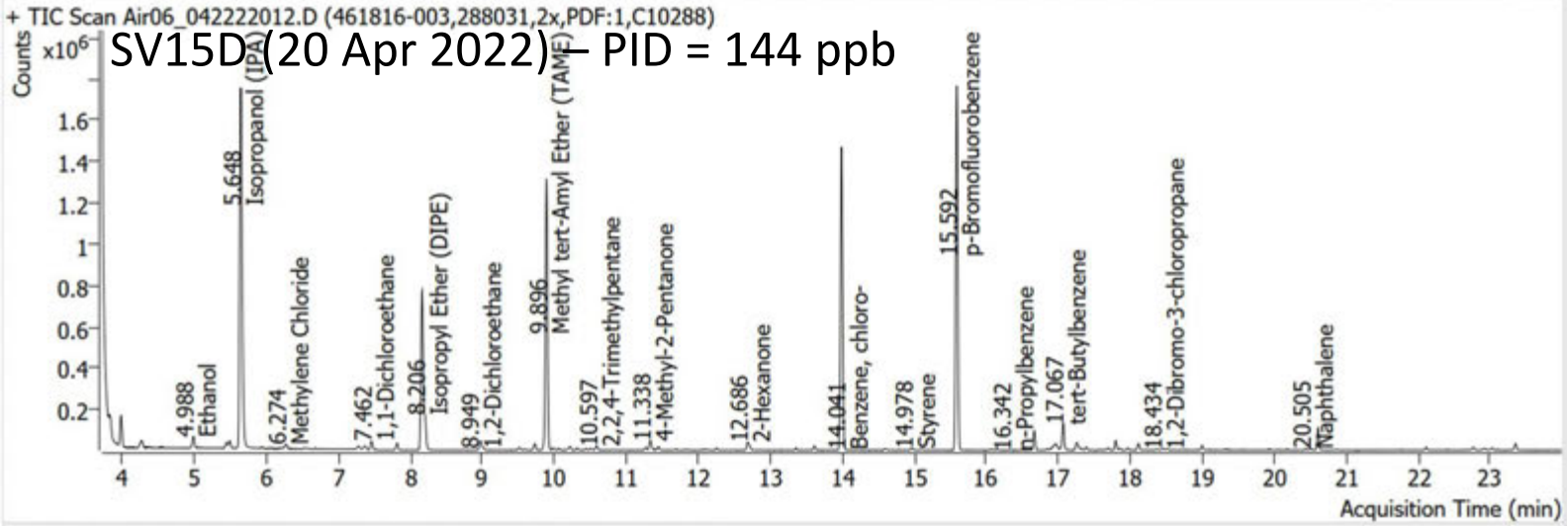

Signal: AIR04_040622005.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoline
TPH Gasoil
SV20M (30 Mar 2022)
PID =0.92 ppm
TPH by TO-3 = 0.069 ppm

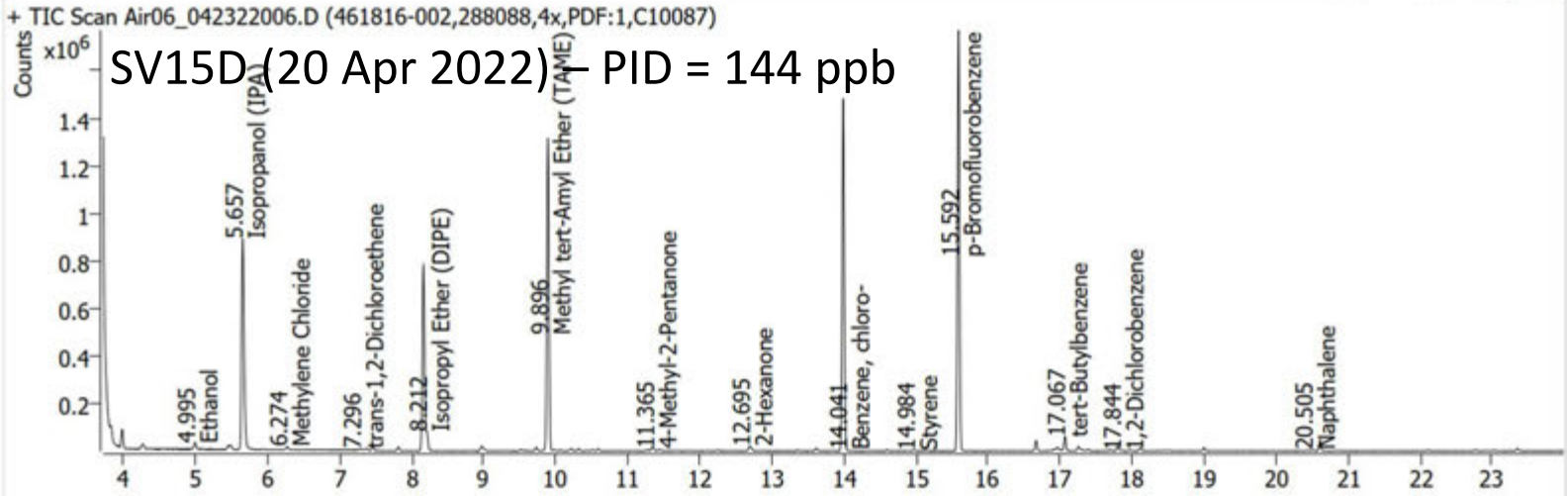
April 2022
Soil Vapor Samples

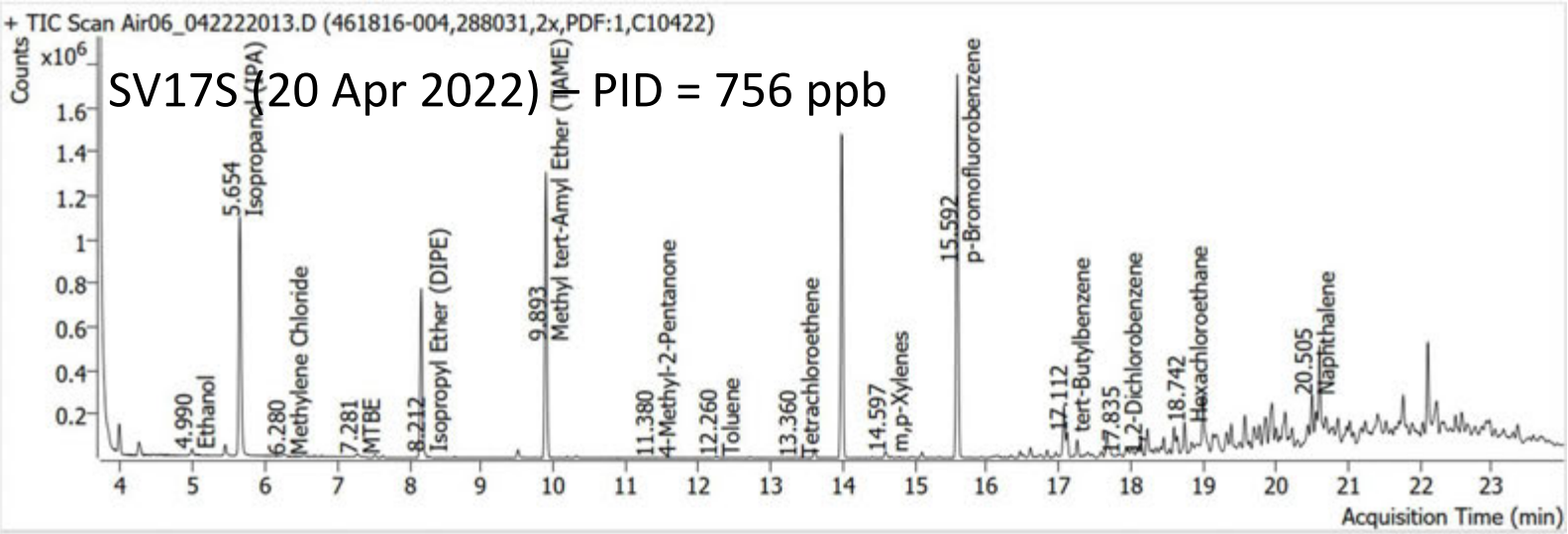
Mass Spec Chromatograms

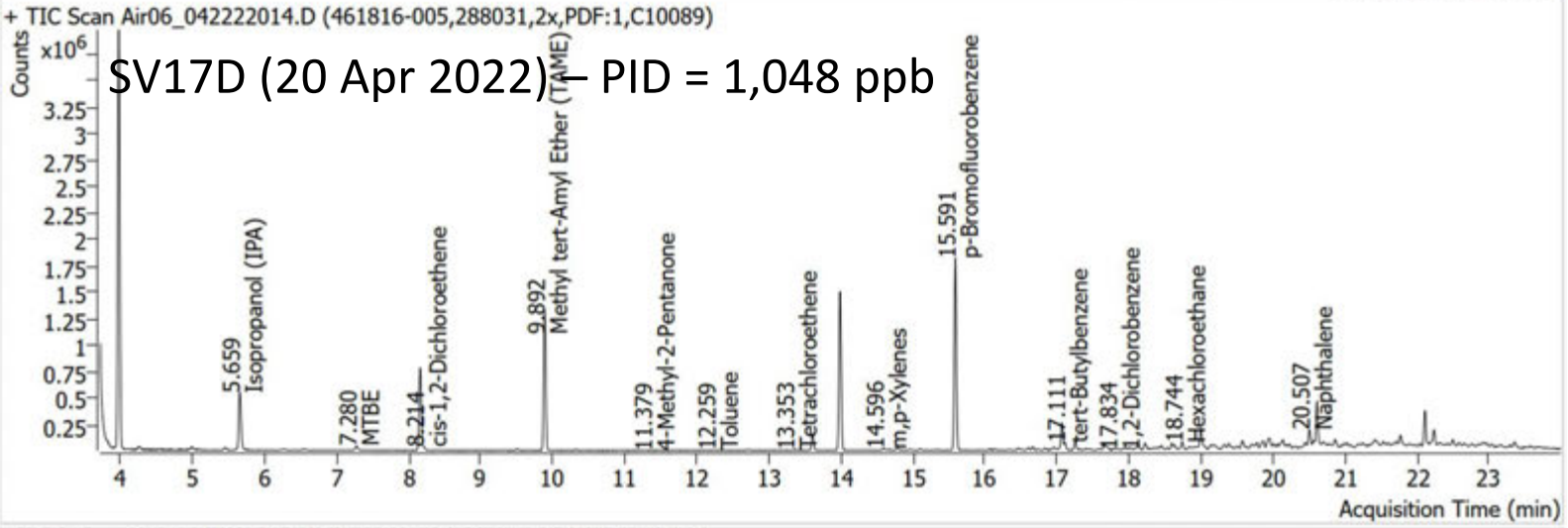

+ TIC Scan Air06_042222005.D (BLANK,QC985318,288031,1x,PDF:1,C11041)
Lab Blank
Counts
x10^6
4.281 Methanol
5.001 Ethanol
6.271 Methylene Chloride
8.178 Chloroform
9.893 Methyl tert-Amyl Ether (TAME)
11.398 4-Methyl-2-Pentanone
12.520 2-Hexanone
14.035 Benzene, chloro-
15.592 p-Bromofluorobenzene
16.287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

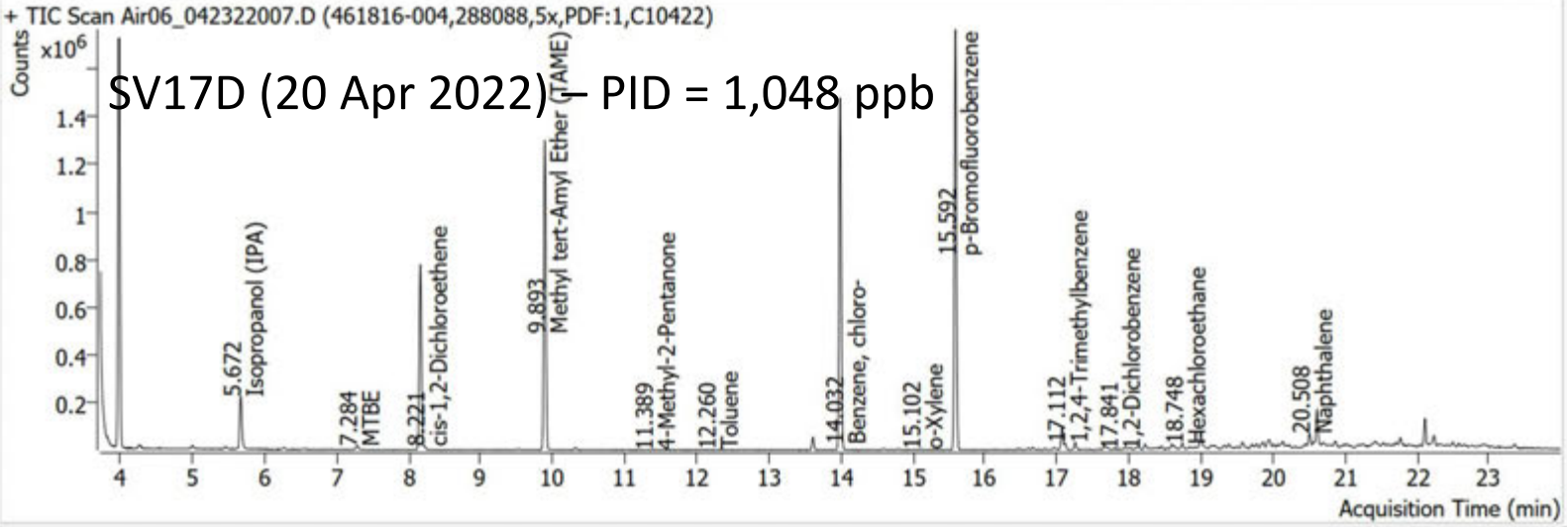

+ TIC Scan Air06_042222011.D (461816-002,288031,2x,PDF:1,C10087)
SV15S (20 Apr 2022) – PID = 167 ppb
Counts
x10^6
4.994 Ethanol
5.654 Isopropanol (IPA)
6.277 Methylene Chloride
7.292 MTBE
8.211 Ethyl Acetate
8.946 1,2-Dichloroethane
9.892 Methyl tert-Amyl Ether (TAME)
11.386 4-Methyl-2-Pentanone
12.254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

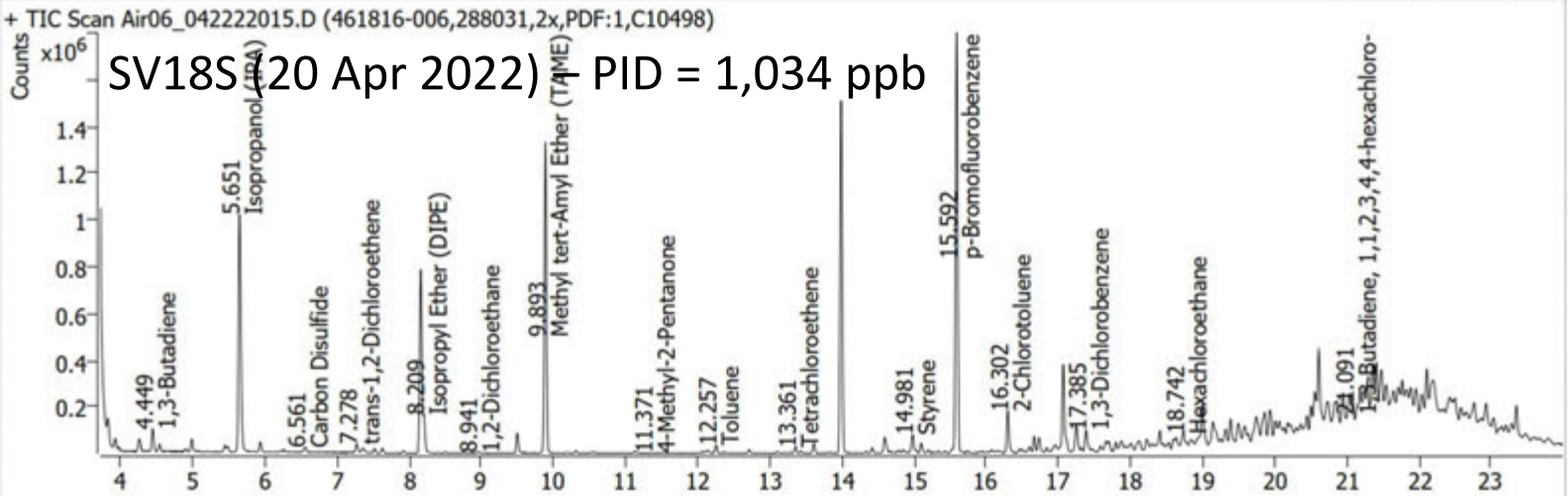

+ TIC Scan Air06_042222012.D (461816-003,288031,2x,PDF:1,C10288)
SV15D (20 Apr 2022) – PID = 144 ppb
Counts
x10^6
4.988 Ethanol
5.648 Isopropanol (IPA)
6.274 Methylene Chloride
7.462 1,1-Dichloroethane
8.206 Isopropyl Ether (DIPE)
8.949 1,2-Dichloroethane
9.896 Methyl tert-Amyl Ether (TAME)
10.597 2,2,4-Trimethylpentane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

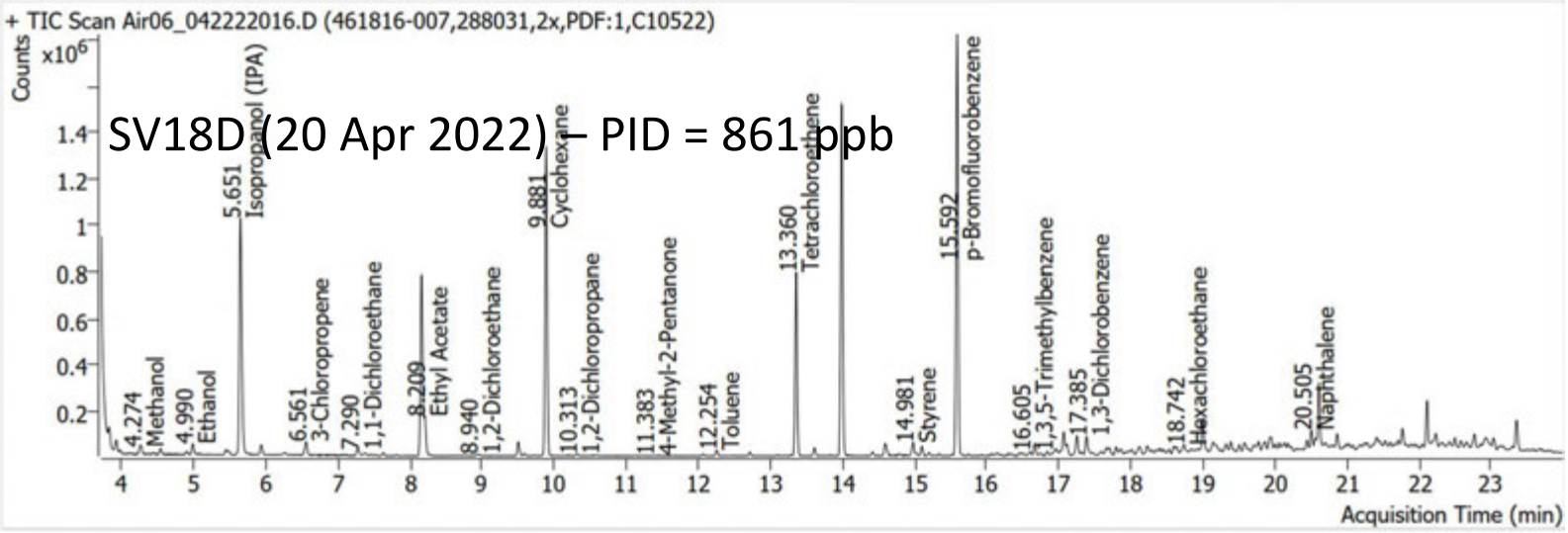

+ TIC Scan Air06_042322006.D (461816-002,288088,4x,PDF:1,C10087)
SV15D (20 Apr 2022) – PID = 144 ppb
Counts
x10^6
4.995 Ethanol
5.657 Isopropanol (IPA)
6.274 Methylene Chloride
7.296 trans-1,2-Dichloroethene
8.212 Isopropyl Ether (DIPE)
9.896 Methyl tert-Amyl Ether (TAME)
11.365 4-Methyl-2-Pentanone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

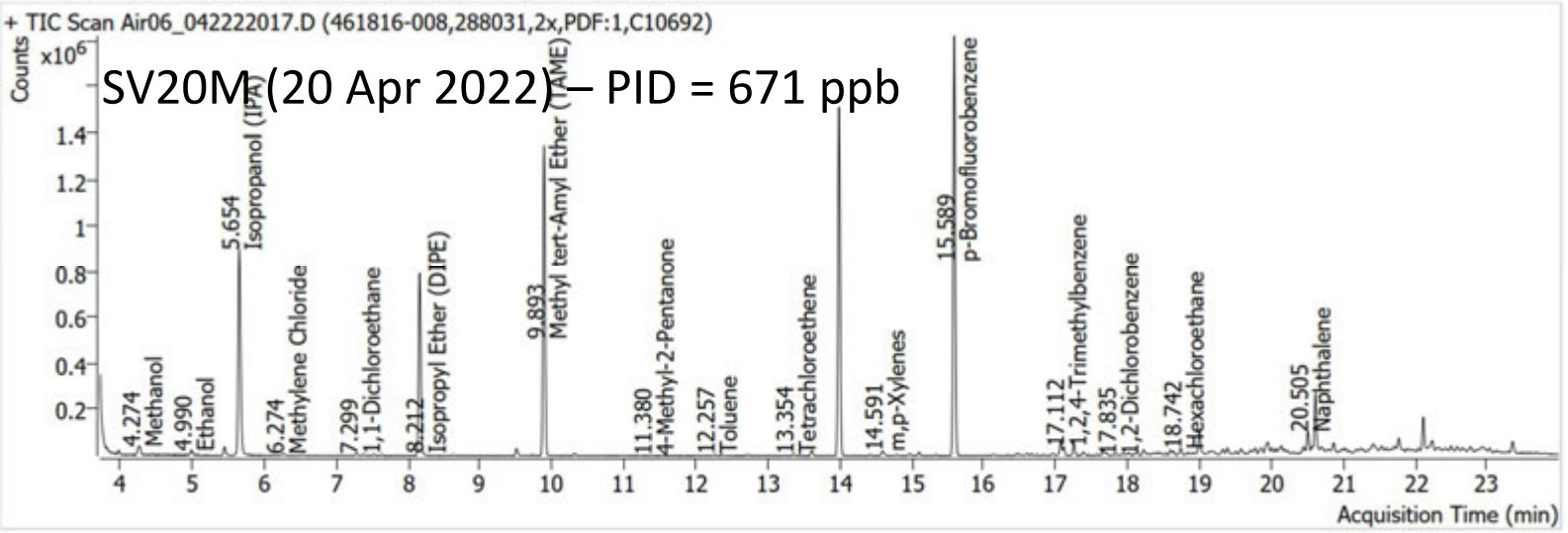

+ TIC Scan Air06_042222013.D (461816-004,288031,2x,PDF:1,C10422)
SV17S (20 Apr 2022) – PID = 756 ppb
Counts
x10^6
4.990 Ethanol
5.654 Isopropanol (IPA)
6.280 Methylene Chloride
7.281 MTBE
8.212 Isopropyl Ether (DIPE)
9.893 Methyl tert-Amyl Ether (TAME)
11.380 4-Methyl-2-Pentanone
12.260 Toluene
13.360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

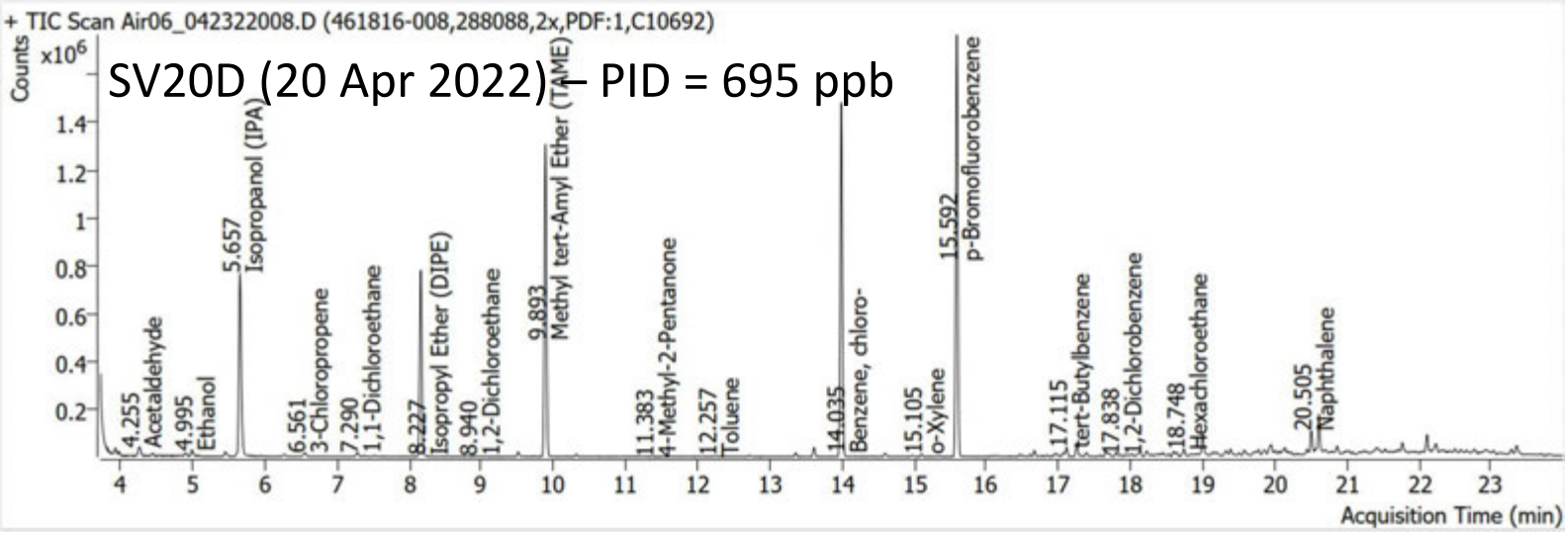

+ TIC Scan Air06_042222014.D (461816-005,288031,2x,PDF:1,C10089)
SV17D (20 Apr 2022) – PID = 1,048 ppb
Counts
x10^6
5.659 Isopropanol (IPA)
7.280 MTBE
8.214 cis-1,2-Dichloroethene
9.892 Methyl tert-Amyl Ether (TAME)
11.379 4-Methyl-2-Pentanone
12.259 Toluene
13.353 Tetrachloroethene
14.596 m,p-Xylenes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


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


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

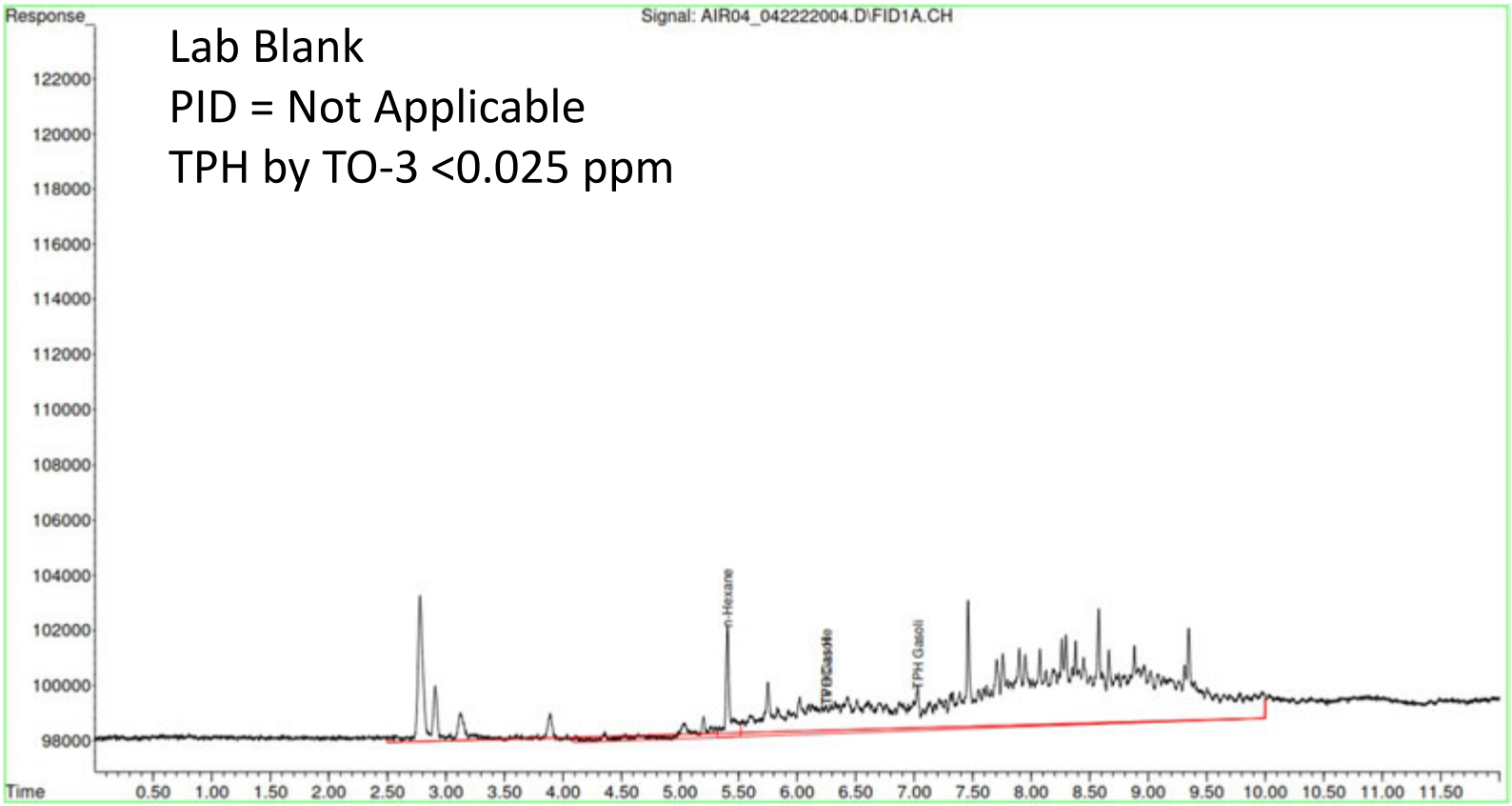

+ TIC Scan Air06_042222016.D (461816-007,288031,2x,PDF:1,C10522)
SV18D (20 Apr 2022) – PID = 861 ppb
Counts
x10^6
4.274 Methanol
4.990 Ethanol
5.651 Isopropanol (IPA)
6.561 3-Chloropropene
7.290 1,1-Dichloroethane
8.209 Ethyl Acetate
8.940 1,2-Dichloroethane
9.881 Cyclohexane
10.313 1,2-Dichloropropane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

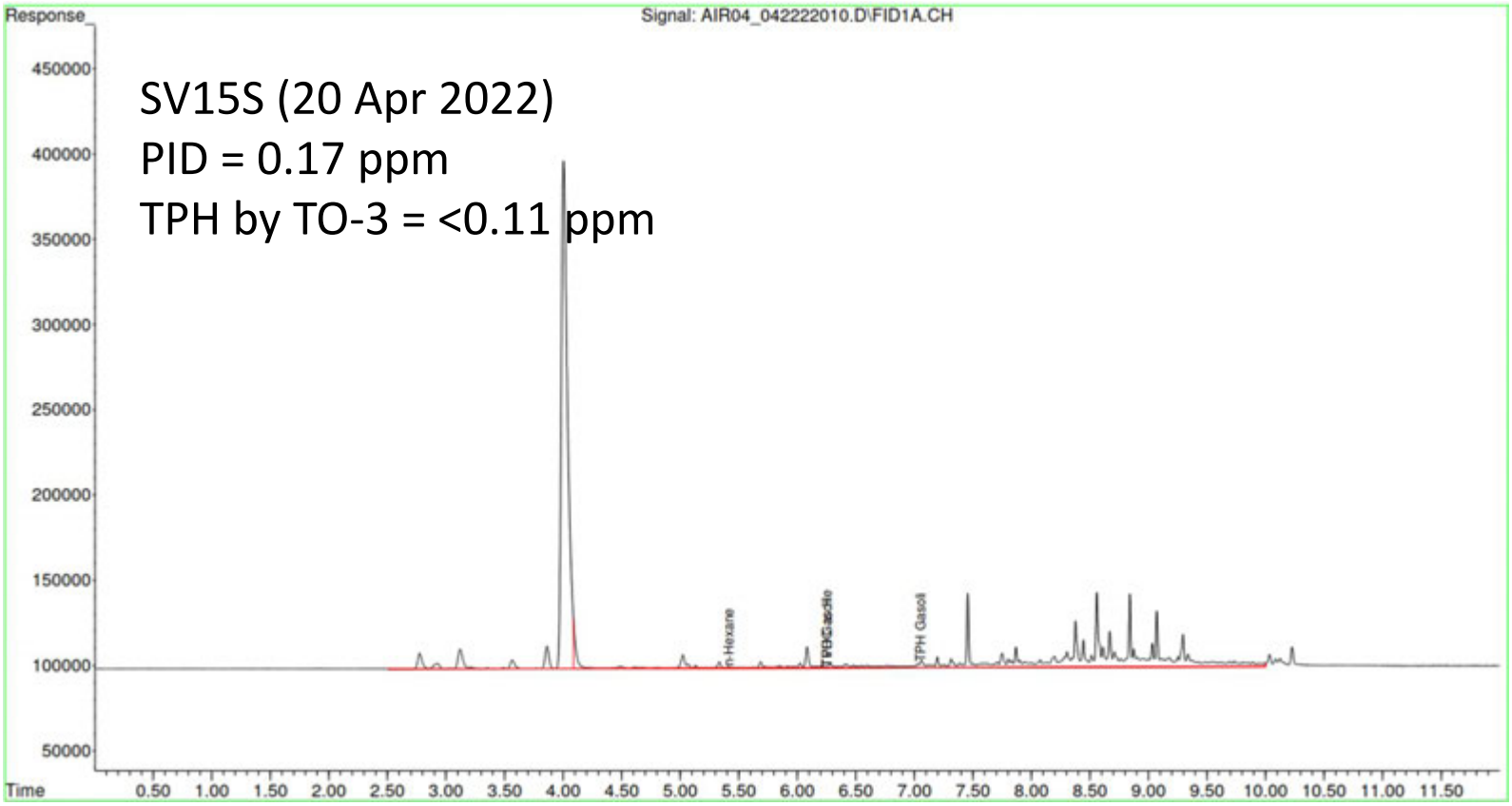

+ TIC Scan Air06_042222017.D (461816-008,288031,2x,PDF:1,C10692)
SV20M (20 Apr 2022) – PID = 671 ppb
Counts
x10^6
4.274 Methanol
4.990 Ethanol
5.654 Isopropanol (IPA)
6.274 Methylene Chloride
7.299 1,1-Dichloroethane
8.212 Isopropyl Ether (DIPE)
9.893 Methyl tert-Amyl Ether (TAME)
11.380 4-Methyl-2-Pentanone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

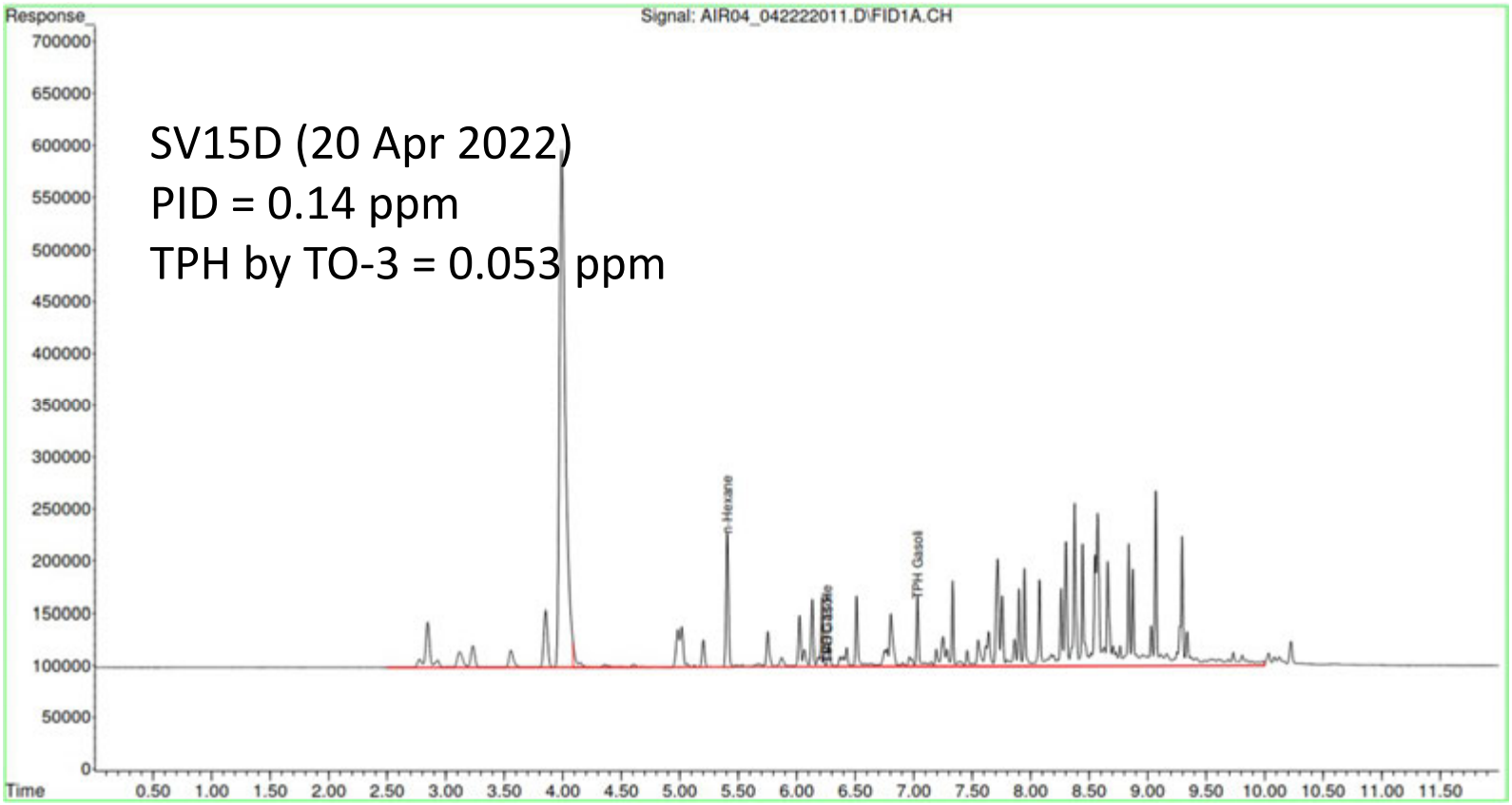

+ TIC Scan Air06_042322008.D (461816-008,288088,2x,PDF:1,C10692)
SV20D (20 Apr 2022) – PID = 695 ppb
Counts
x10^6
4.255 Acetaldehyde
4.995 Ethanol
5.657 Isopropanol (IPA)
6.561 3-Chloropropene
7.290 1,1-Dichloroethane
8.227 Isopropyl Ether (DIPE)
8.940 1,2-Dichloroethane
9.893 Methyl tert-Amyl Ether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

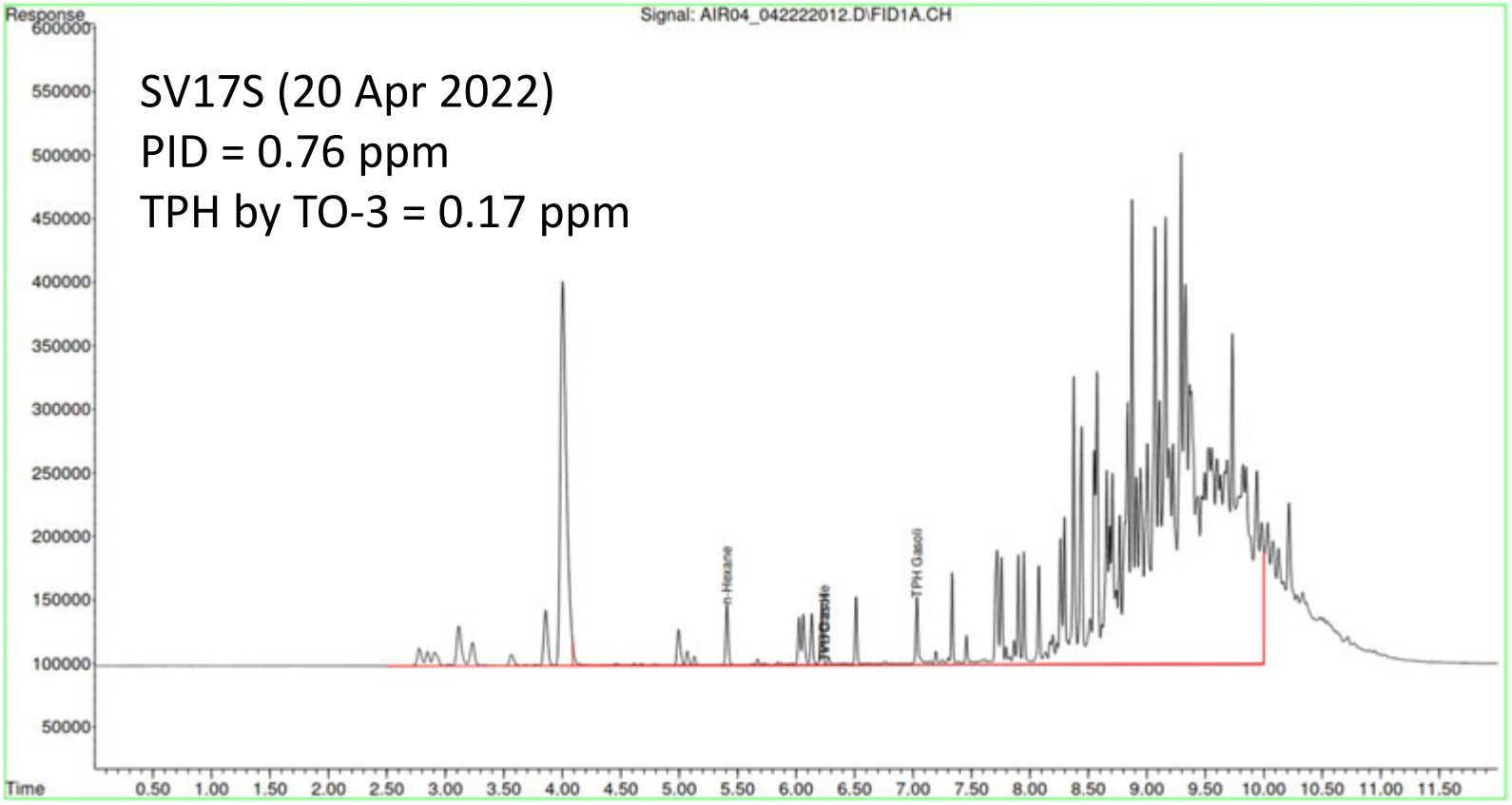
April 2022
Soil Vapor Samples

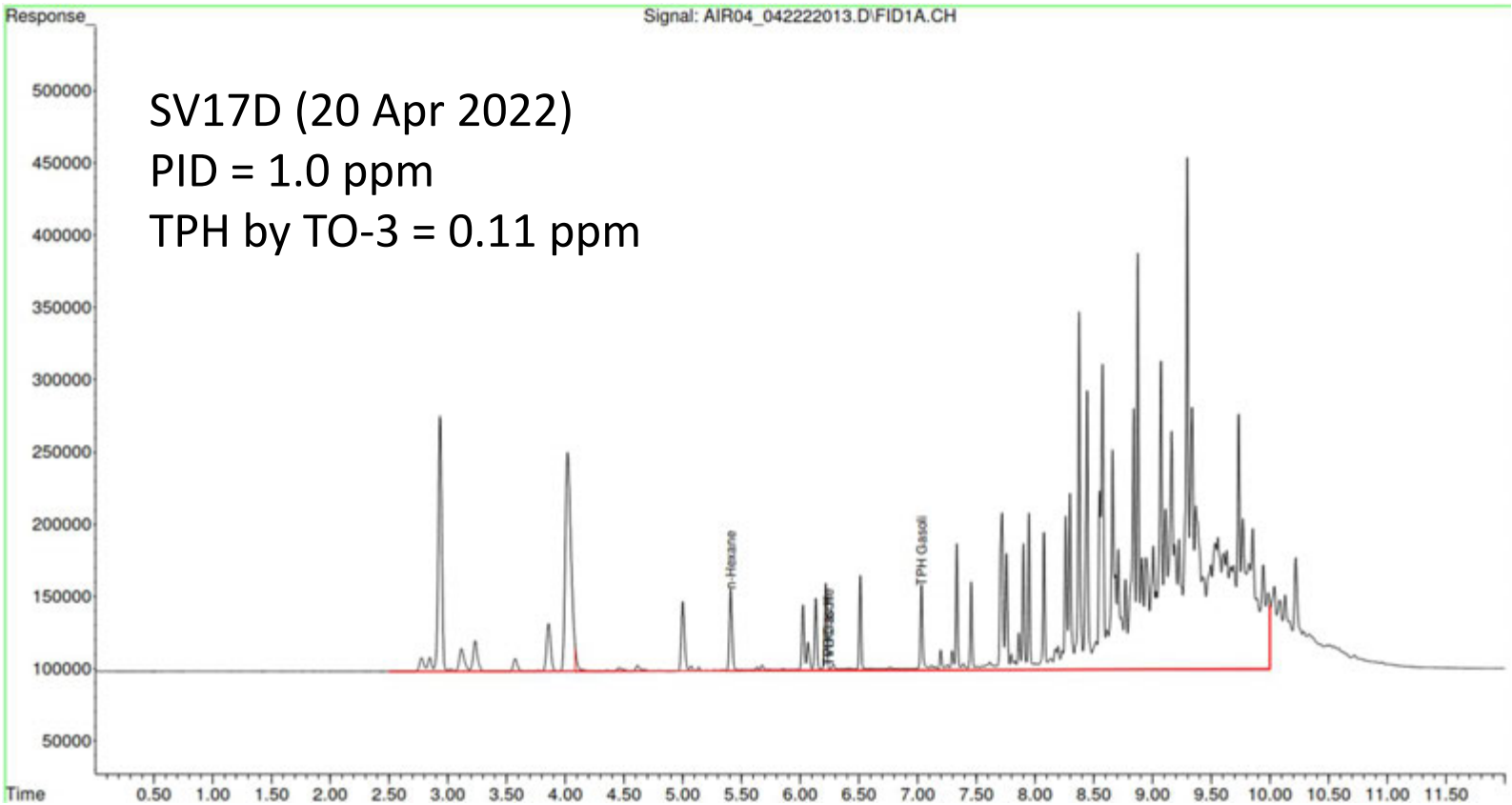
FID Chromatograms

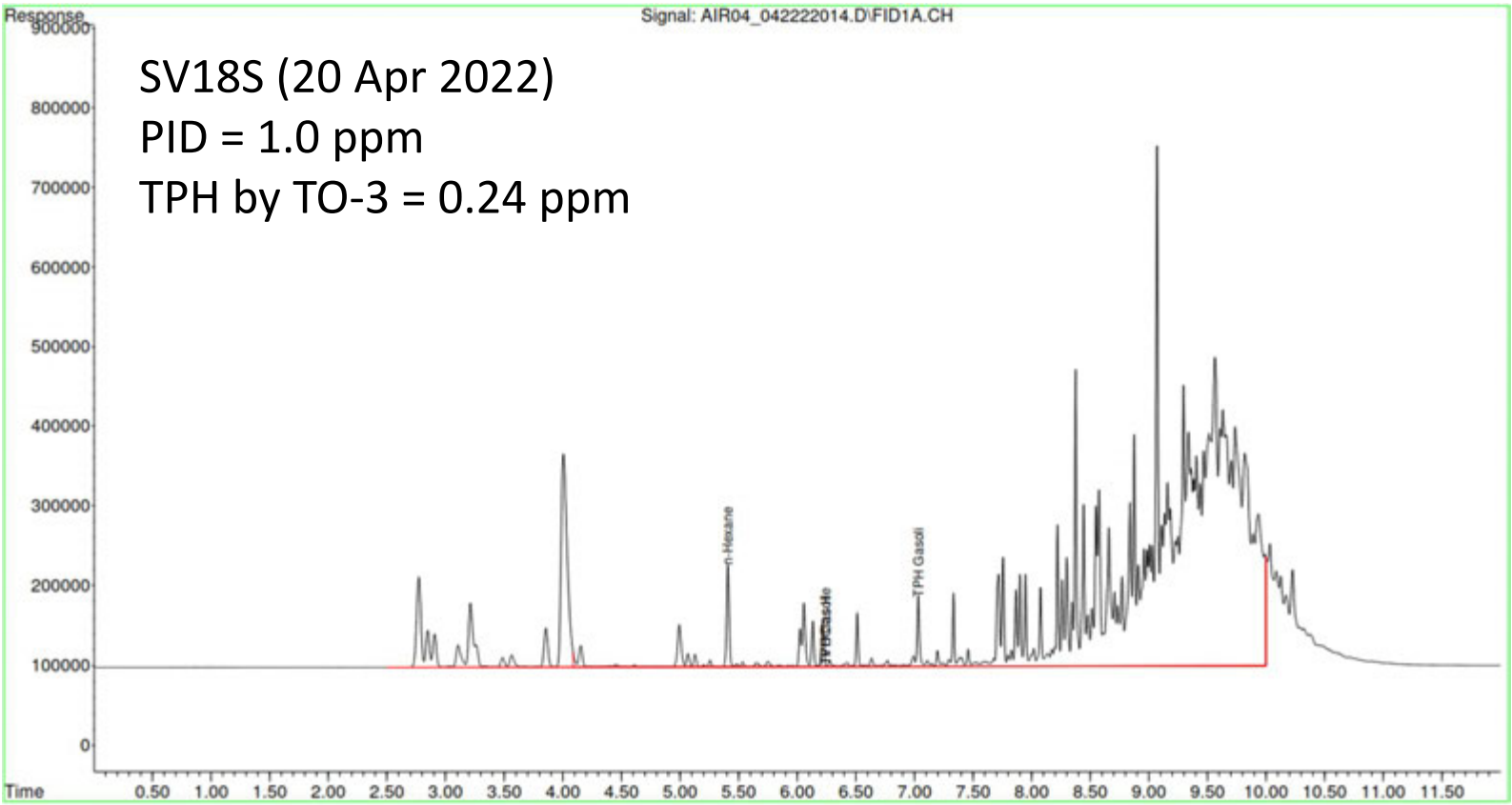

Signal: AIR04_042222004.D\FID1A.CH
Response
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
n-Hexane
TPH Gasoli
Time

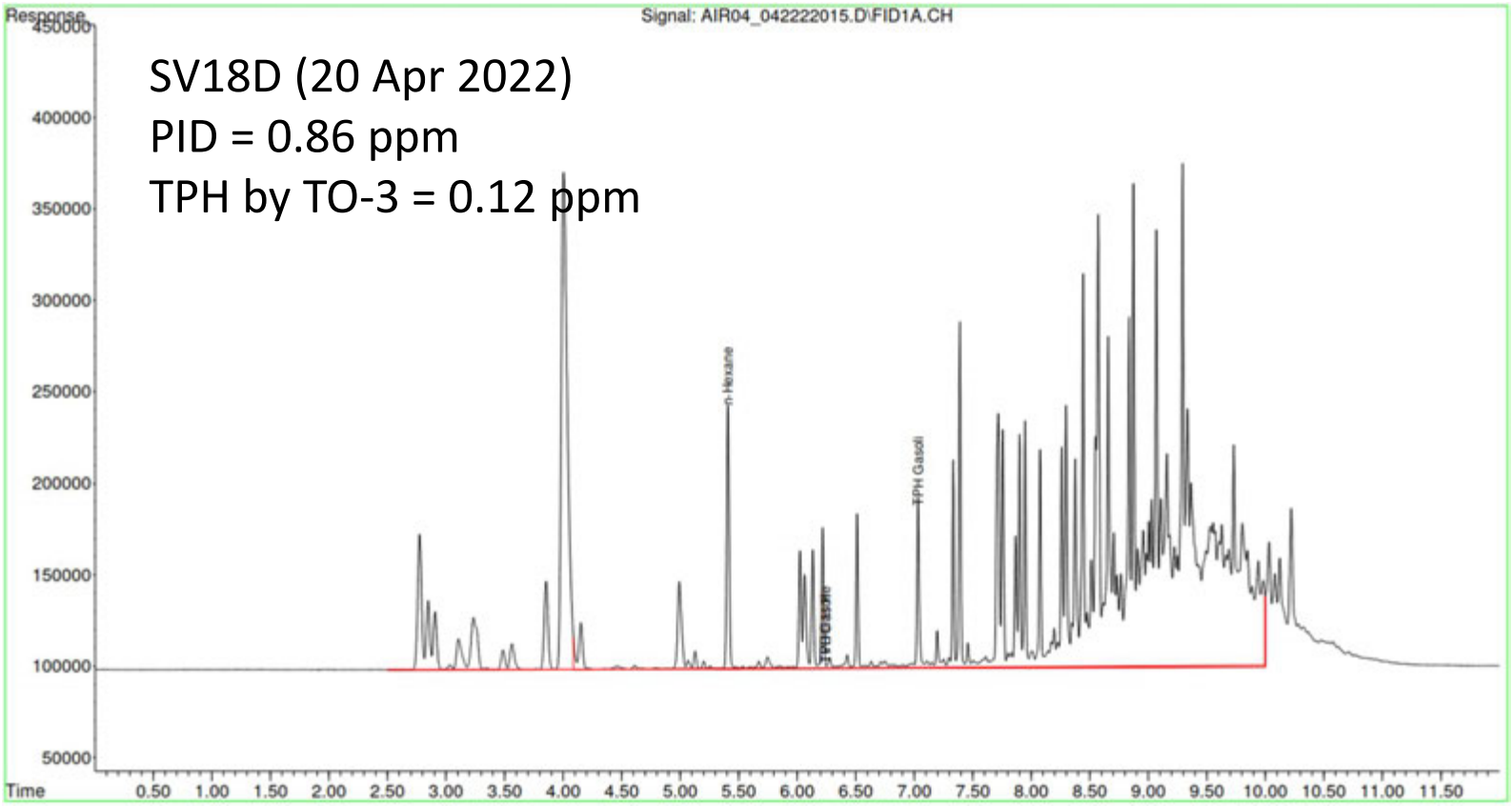

Signal: AIR04_042222010.D\FID1A.CH
Response
SV15S (20 Apr 2022)
PID = 0.17 ppm
TPH by TO-3 = <0.11 ppm
n-Hexane
TPH Gasoli
Time

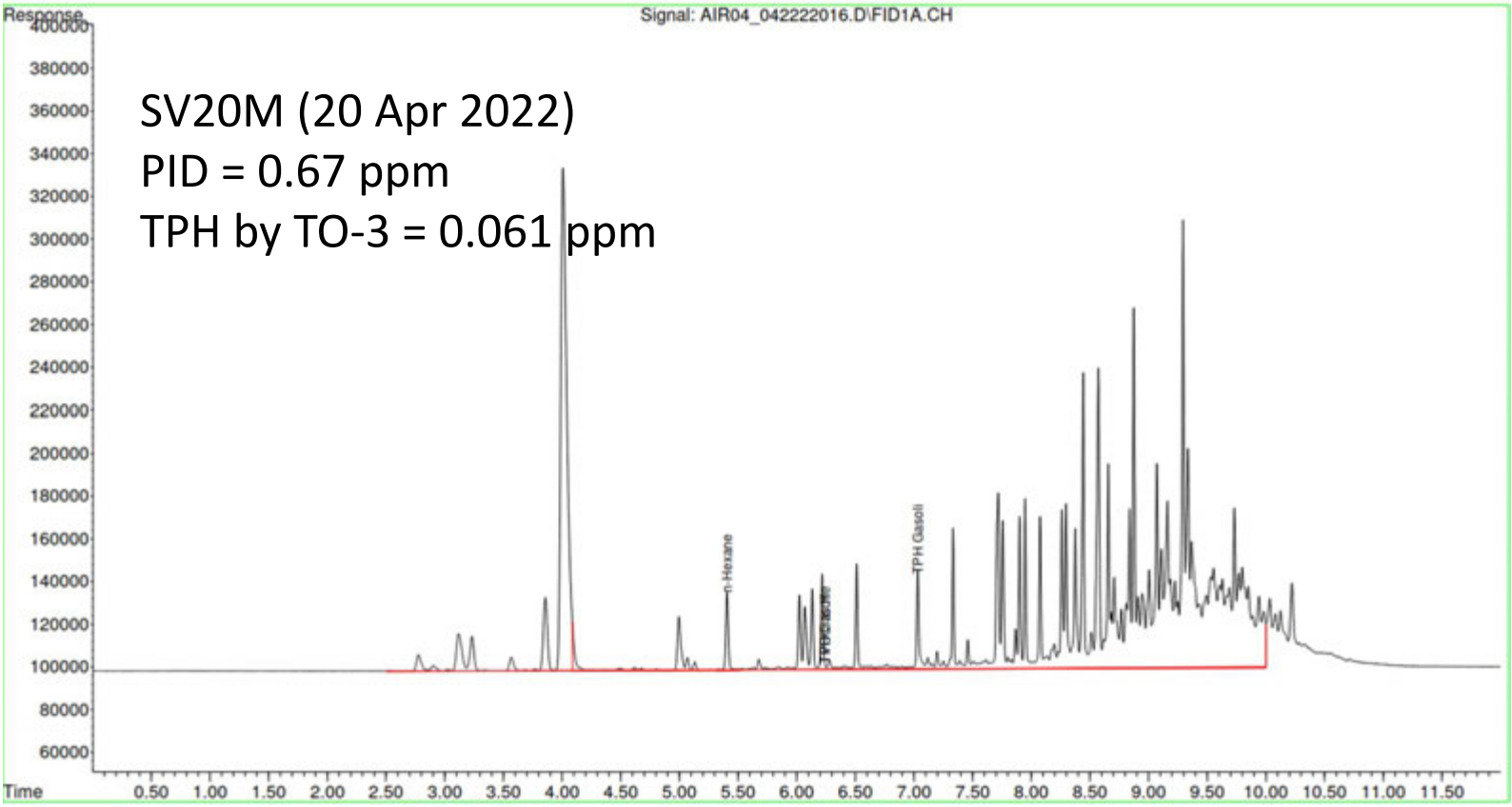

Signal: AIR04_042222011.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoil
SV15D (20 Apr 2022)
PID = 0.14 ppm
TPH by TO-3 = 0.053 ppm

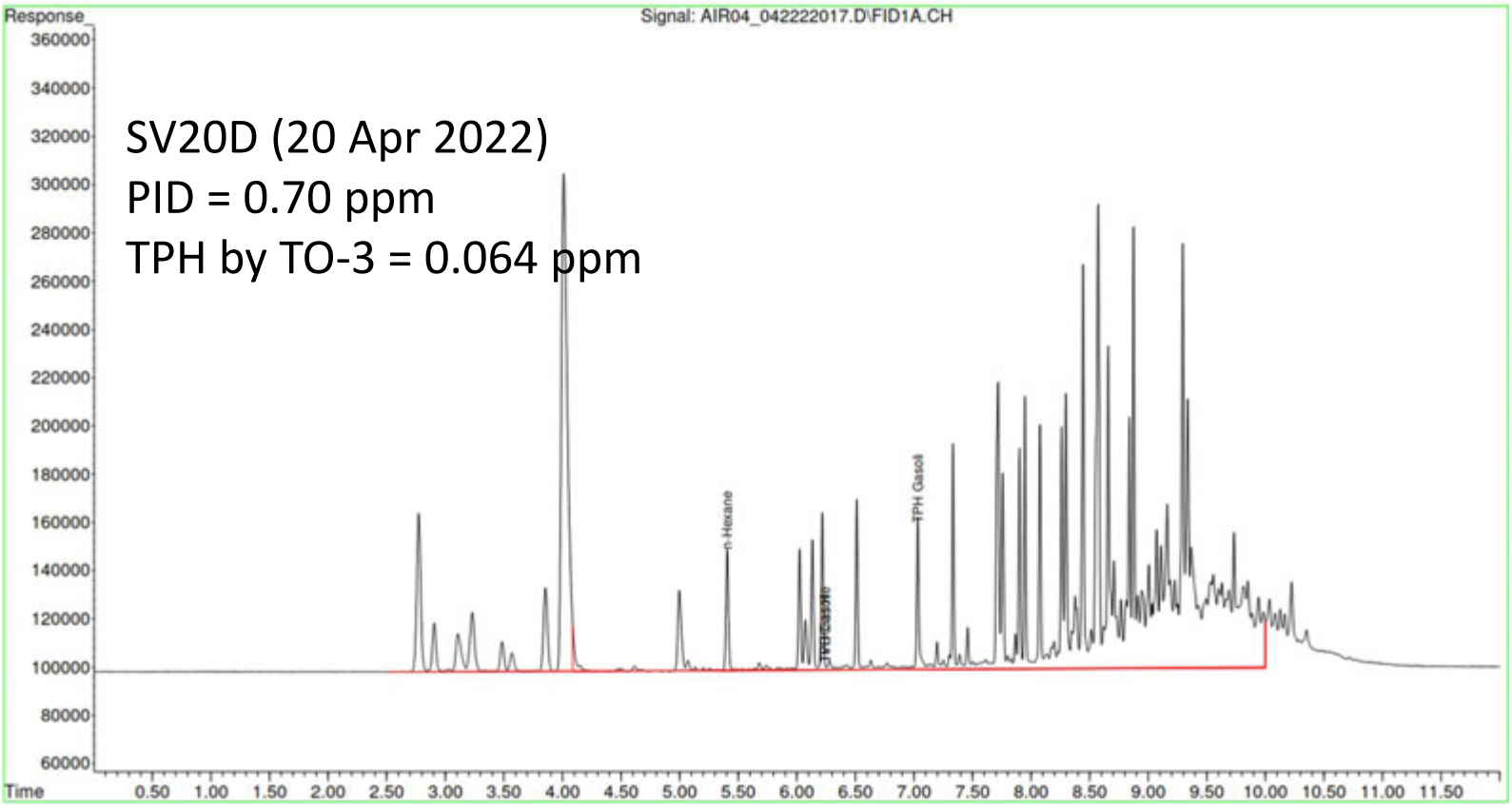

Signal: AIR04_042222012.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoil
SV17S (20 Apr 2022)
PID = 0.76 ppm
TPH by TO-3 = 0.17 ppm


Signal: AIR04_042222013.D\FID1A.CH
Response
SV17D (20 Apr 2022)
PID = 1.0 ppm
TPH by TO-3 = 0.11 ppm
n-Hexane
TPH Gasoline
Time


Signal: AIR04_042222014.D\FID1A.CH
Response
SV18S (20 Apr 2022)
PID = 1.0 ppm
TPH by TO-3 = 0.24 ppm
n-Hexane
TPH Gasoline
Time

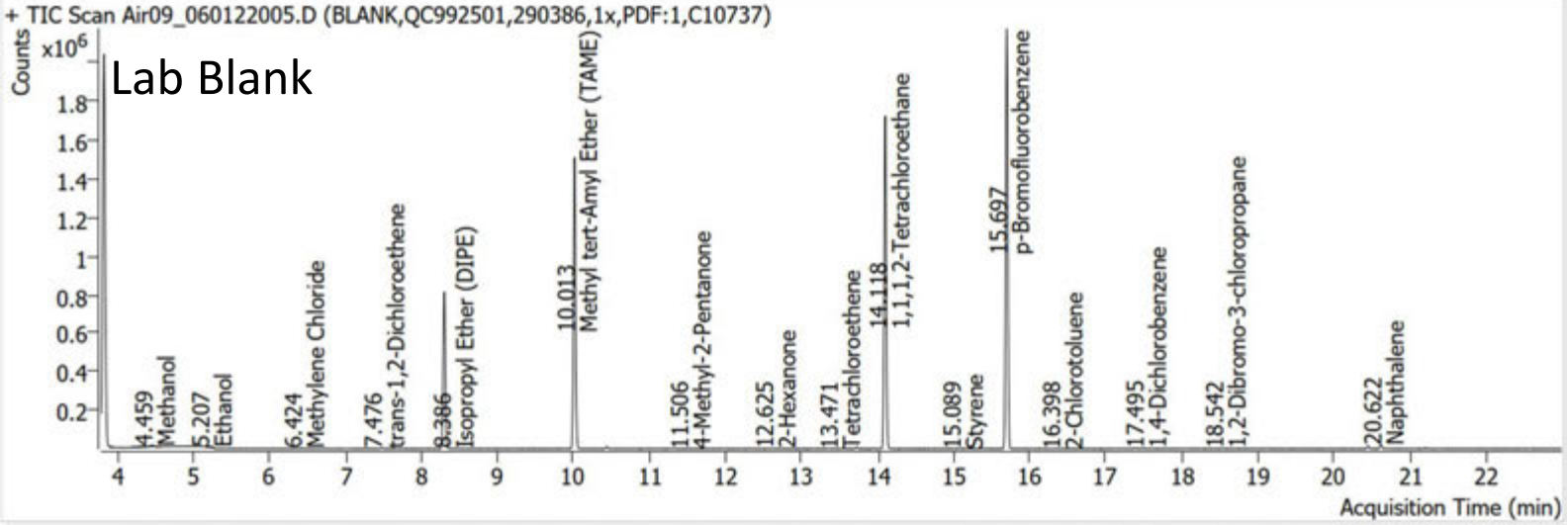

Signal: AIR04_042222015.D\FID1A.CH
Response
SV18D (20 Apr 2022)
PID = 0.86 ppm
TPH by TO-3 = 0.12 ppm
n-Hexane
TPH Gasoli
Time

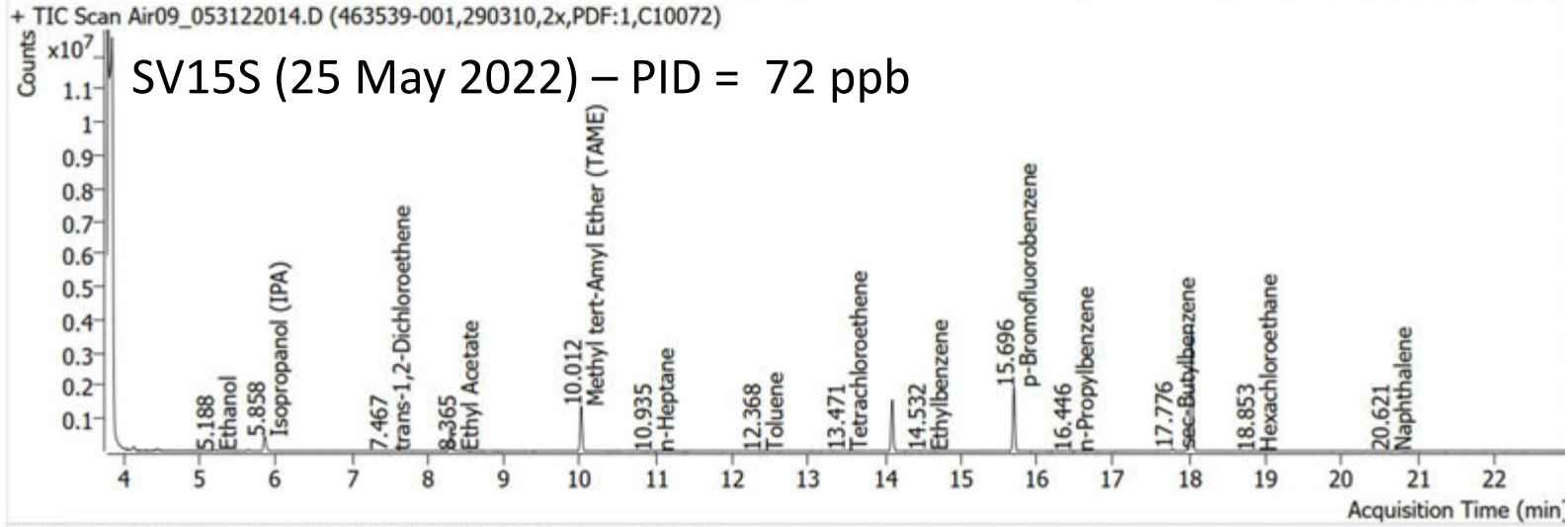

Signal: AIR04_042222016.D\FID1A.CH
Response
SV20M (20 Apr 2022)
PID = 0.67 ppm
TPH by TO-3 = 0.061 ppm
n-Hexane
TPH Gasoli
Time

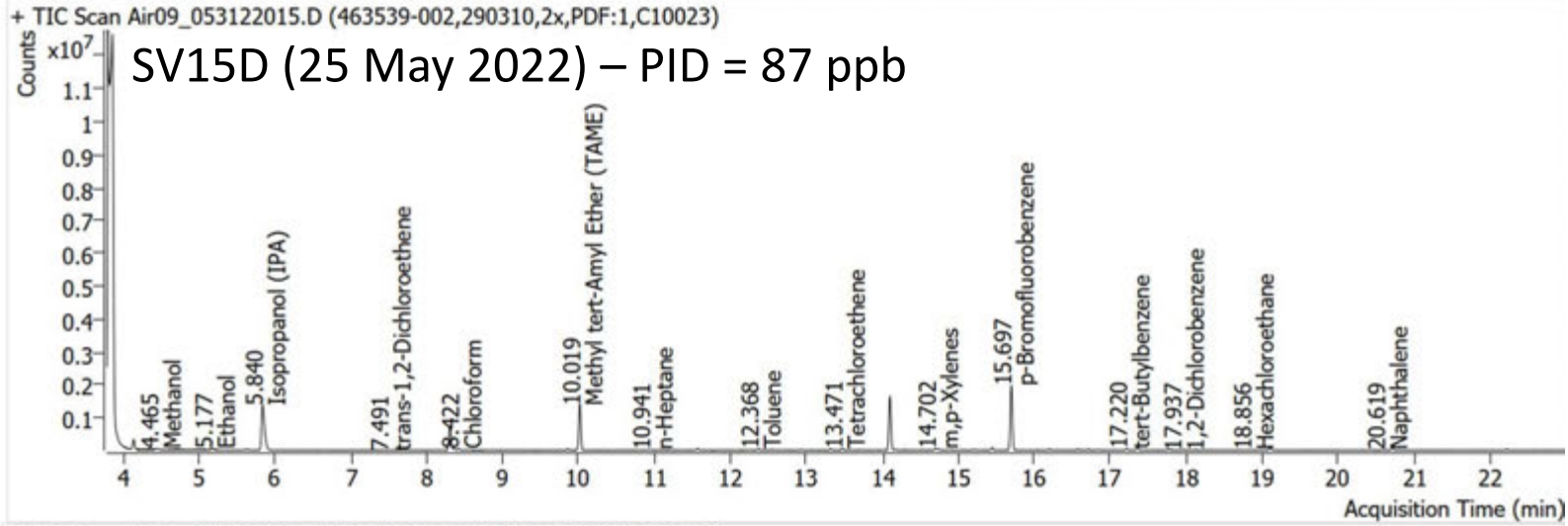

Signal: AIR04_042222017.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasol
SV20D (20 Apr 2022)
PID = 0.70 ppm
TPH by TO-3 = 0.064 ppm

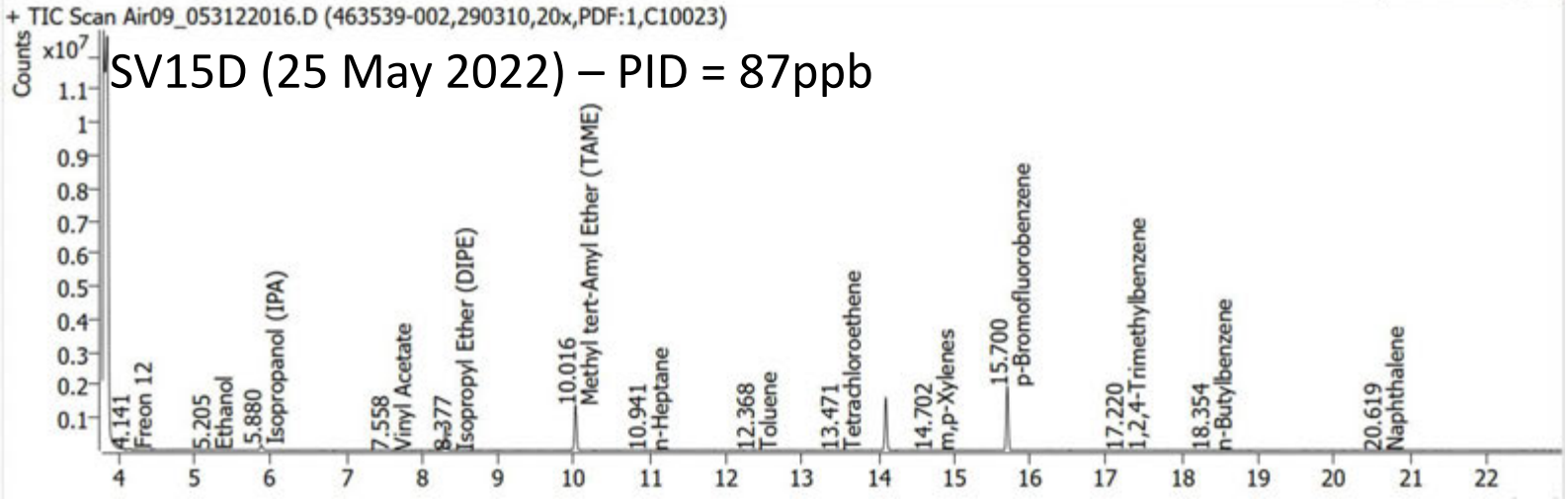
May 2022
Soil Vapor Samples

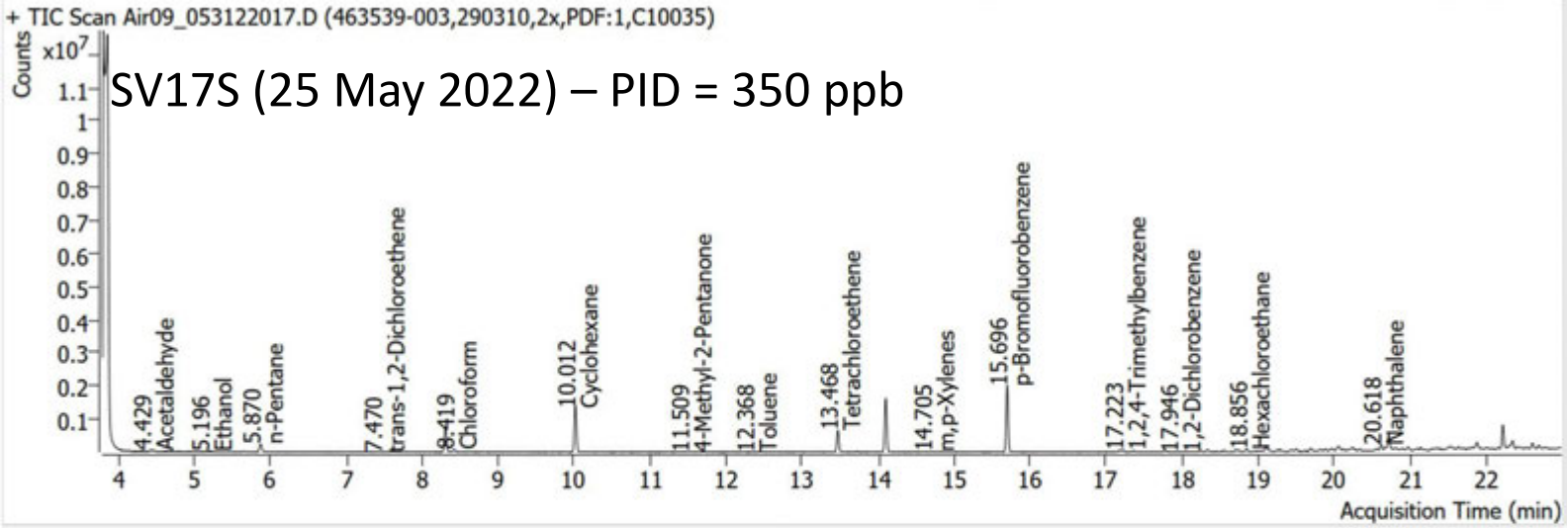
Mass Spec Chromatograms

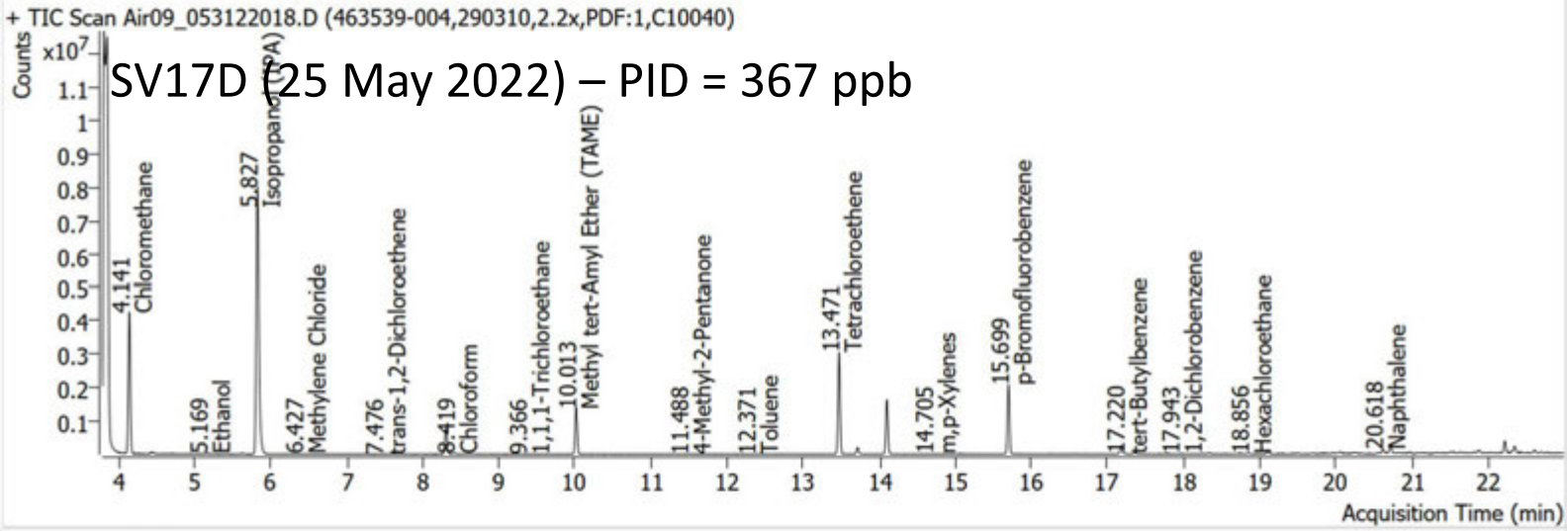

+ TIC Scan Air09_060122005.D (BLANK,QC992501,290386,1x,PDF:1,C10737)
Lab Blank
Counts
x10^6
4.459 Methanol
5.207 Ethanol
6.424 Methylene Chloride
7.476 trans-1,2-Dichloroethene
8.386 Isopropyl Ether (DIPE)
10.013 Methyl tert-Amyl Ether (TAME)
11.506 4-Methyl-2-Pentanone
12.625 2-Hexanone
13.471 Tetrachloroethene
14.118 1,1,1,2-Tetrachloroethane
15.089 Styrene
15.697 p-Bromofluorobenzene
16.398 2-Chlorotoluene
17.495 1,4-Dichlorobenzene
18.542 1,2-Dibromo-3-chloropropane
20.622 Naphthalene
Acquisition Time (min)

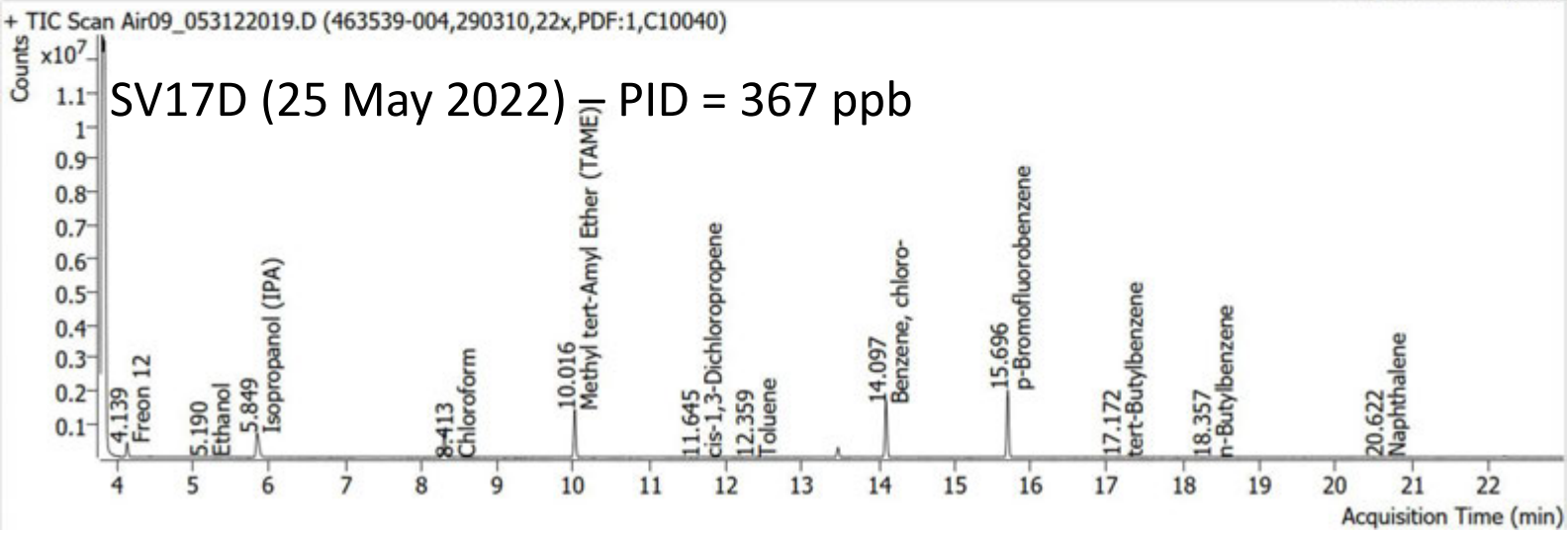

+ TIC Scan Air09_053122014.D (463539-001,290310,2x,PDF:1,C10072)
SV15S (25 May 2022) – PID = 72 ppb
Counts
x10^7
5.188 Ethanol
5.858 Isopropanol (IPA)
7.467 trans-1,2-Dichloroethene
8.365 Ethyl Acetate
10.012 Methyl tert-Amyl Ether (TAME)
10.935 n-Heptane
12.368 Toluene
13.471 Tetrachloroethene
14.532 Ethylbenzene
15.696 p-Bromofluorobenzene
16.446 n-Propylbenzene
17.776 sec-Butylbenzene
18.853 Hexachloroethane
20.621 Naphthalene
Acquisition Time (min)

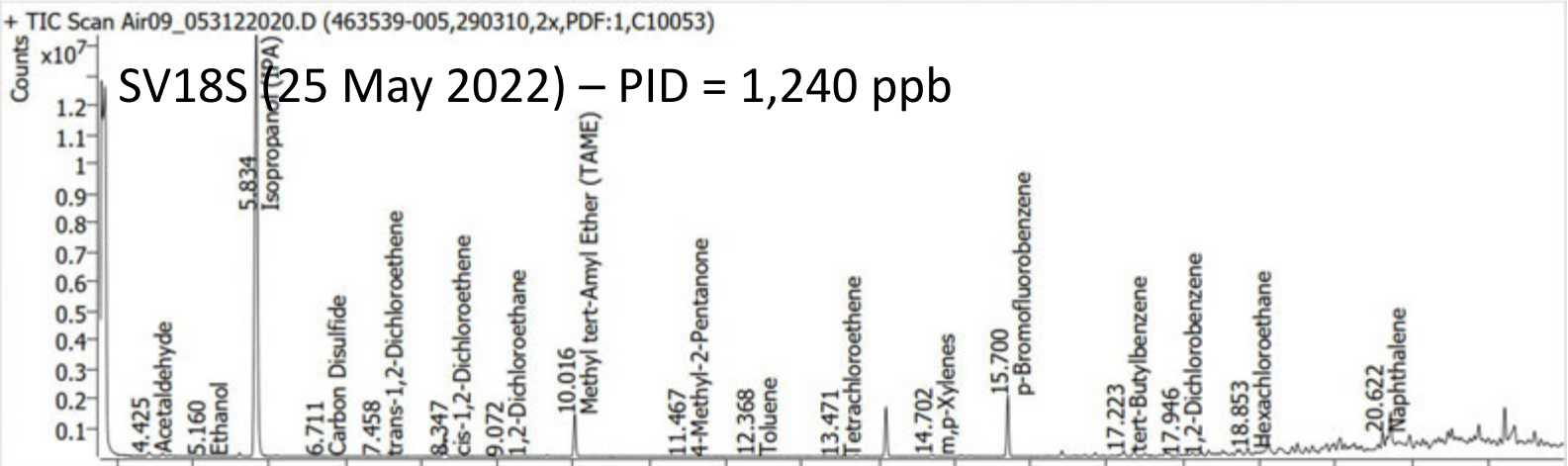

+ TIC Scan Air09_053122015.D (463539-002,290310,2x,PDF:1,C10023)
SV15D (25 May 2022) – PID = 87 ppb
Counts
x10^7
4.465 Methanol
5.177 Ethanol
5.840 Isopropanol (IPA)
7.491 trans-1,2-Dichloroethene
8.422 Chloroform
10.019 Methyl tert-Amyl Ether (TAME)
10.941 n-Heptane
12.368 Toluene
13.471 Tetrachloroethene
14.702 m,p-Xylenes
15.697 p-Bromofluorobenzene
17.220 tert-Butylbenzene
17.937 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.619 Naphthalene
Acquisition Time (min)

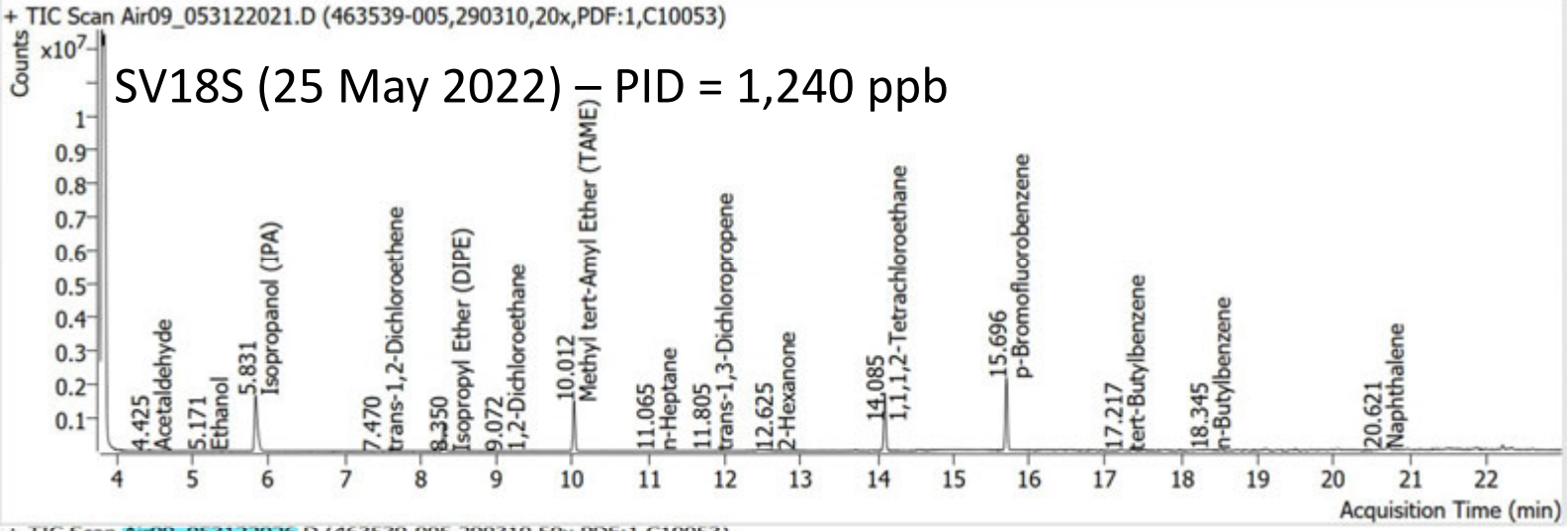

+ TIC Scan Air09_053122016.D (463539-002,290310,20x,PDF:1,C10023)
SV15D (25 May 2022) – PID = 87ppb
Counts
x10^7
4.141 Freon 12
5.205 Ethanol
5.880 Isopropanol (IPA)
7.558 Vinyl Acetate
8.377 Isopropyl Ether (DIPE)
10.016 Methyl tert-Amyl Ether (TAME)
10.941 n-Heptane
12.368 Toluene
13.471 Tetrachloroethene
14.702 m,p-Xylenes
15.700 p-Bromofluorobenzene
17.220 1,2,4-Trimethylbenzene
18.354 n-Butylbenzene
20.619 Naphthalene

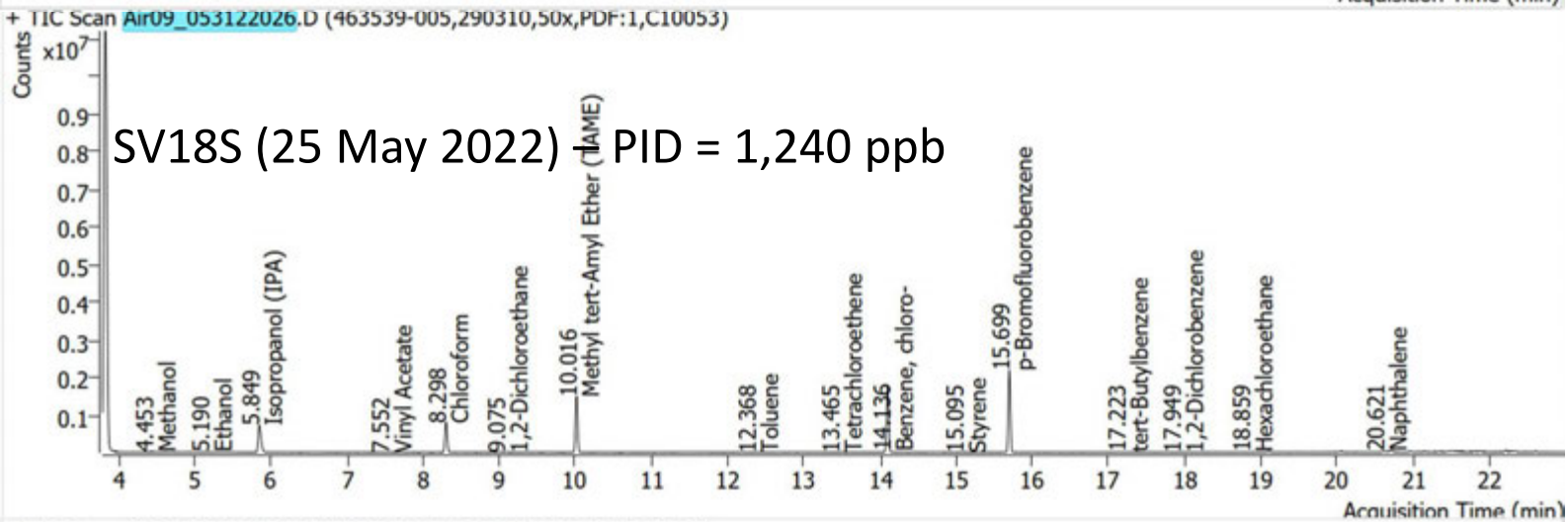

+ TIC Scan Air09_053122017.D (463539-003,290310,2x,PDF:1,C10035)
SV17S (25 May 2022) – PID = 350 ppb
Counts
x10^7
4.429 Acetaldehyde
5.196 Ethanol
5.870 n-Pentane
7.470 trans-1,2-Dichloroethene
8.419 Chloroform
10.012 Cyclohexane
11.509 4-Methyl-2-Pentanone
12.368 Toluene
13.468 Tetrachloroethene
14.705 m,p-Xylenes
15.696 p-Bromofluorobenzene
17.223 1,2,4-Trimethylbenzene
17.946 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.618 Naphthalene
Acquisition Time (min)

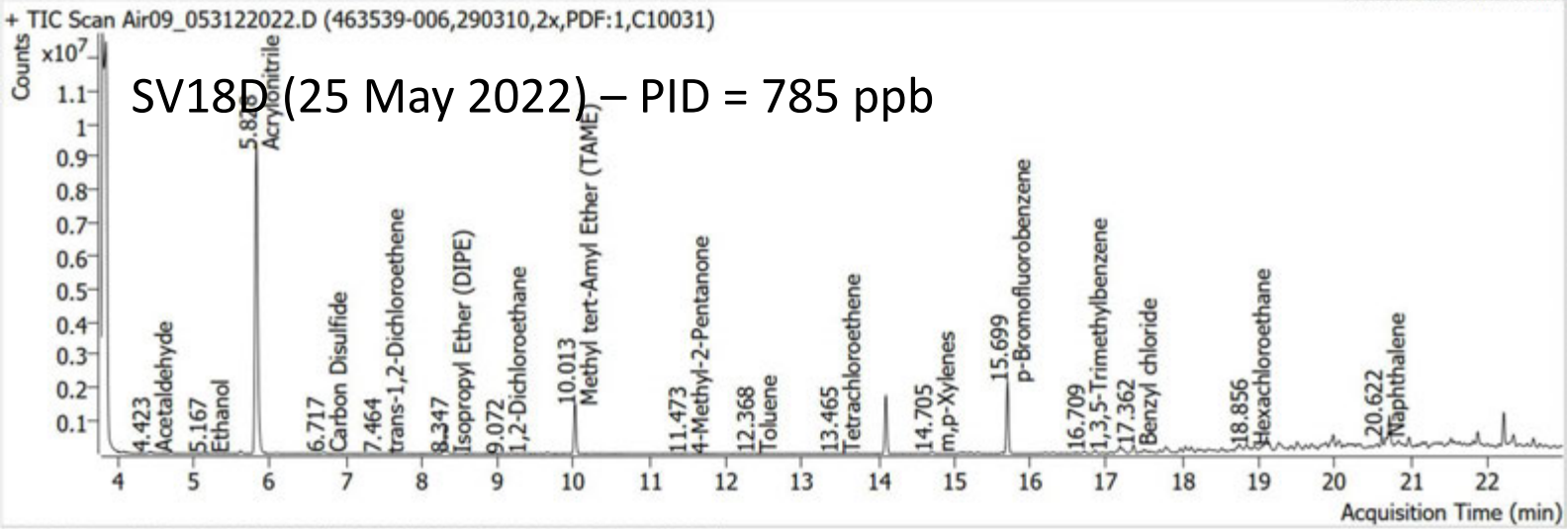

+ TIC Scan Air09_053122018.D (463539-004,290310,2.2x,PDF:1,C10040)
SV17D (25 May 2022) – PID = 367 ppb
Counts
x10^7
4.141 Chloromethane
5.169 Ethanol
5.827 Isopropanol (IPA)
6.427 Methylene Chloride
7.476 trans-1,2-Dichloroethene
8.419 Chloroform
9.366 1,1,1-Trichloroethane
10.013 Methyl tert-Amyl Ether (TAME)
11.488 4-Methyl-2-Pentanone
12.371 Toluene
13.471 Tetrachloroethene
14.705 m,p-Xylenes
15.699 p-Bromofluorobenzene
17.220 tert-Butylbenzene
17.943 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.618 Naphthalene
Acquisition Time (min)

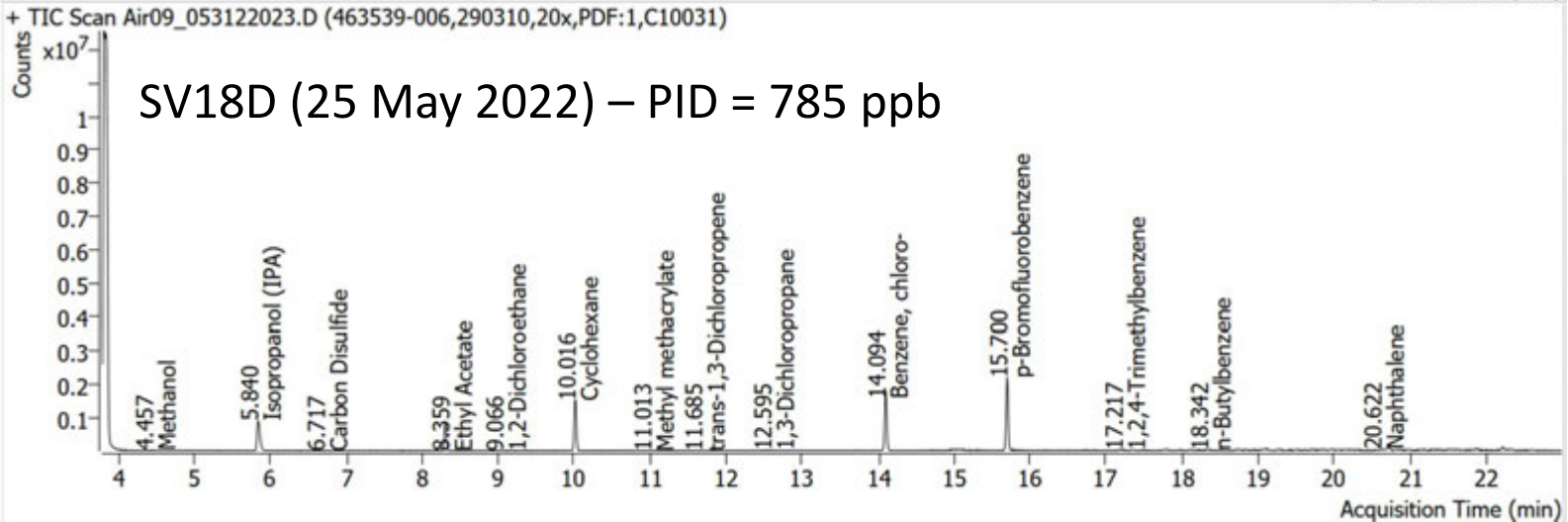

+ TIC Scan Air09_053122019.D (463539-004,290310,22x,PDF:1,C10040)
SV17D (25 May 2022) – PID = 367 ppb
Counts
x10^7
4.139 Freon 12
5.190 Ethanol
5.849 Isopropanol (IPA)
8.413 Chloroform
10.016 Methyl tert-Amyl Ether (TAME)
11.645 cis-1,3-Dichloropropene
12.359 Toluene
14.097 Benzene, chloro-
15.696 p-Bromofluorobenzene
17.172 tert-Butylbenzene
18.357 n-Butylbenzene
20.622 Naphthalene
Acquisition Time (min)

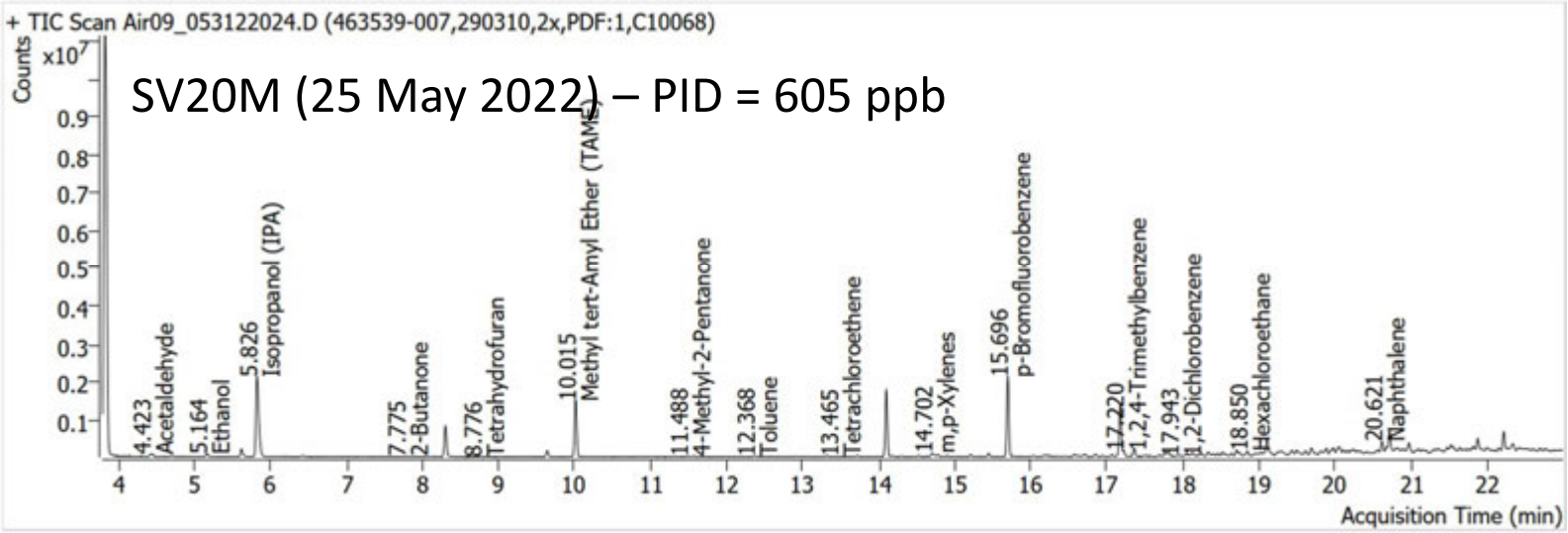

+ TIC Scan Air09_053122020.D (463539-005,290310,2x,PDF:1,C10053)
SV18S (25 May 2022) – PID = 1,240 ppb
Counts
x10^7
4.425 Acetaldehyde
5.160 Ethanol
5.834 Isopropanol (IPA)
6.711 Carbon Disulfide
7.458 trans-1,2-Dichloroethene
8.347 cis-1,2-Dichloroethene
9.072 1,2-Dichloroethane
10.016 Methyl tert-Amyl Ether (TAME)
11.467 4-Methyl-2-Pentanone
12.368 Toluene
13.471 Tetrachloroethene
14.702 m,p-Xylenes
15.700 p-Bromofluorobenzene
17.223 tert-Butylbenzene
17.946 1,2-Dichlorobenzene
18.853 Hexachloroethane
20.622 Naphthalene

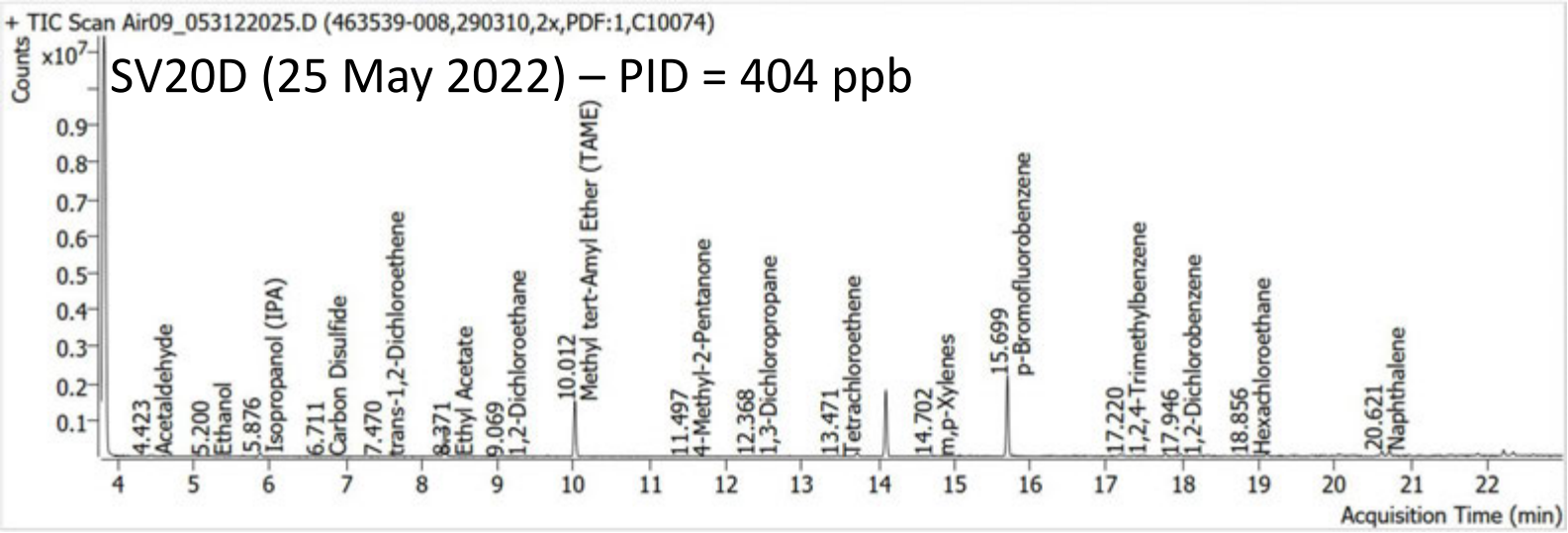

+ TIC Scan Air09_053122021.D (463539-005,290310,20x,PDF:1,C10053)
SV18S (25 May 2022) – PID = 1,240 ppb
Counts
x10^7
4.425 Acetaldehyde
5.171 Ethanol
5.831 Isopropanol (IPA)
7.470 trans-1,2-Dichloroethene
8.350 Isopropyl Ether (DIPE)
9.072 1,2-Dichloroethane
10.012 Methyl tert-Amyl Ether (TAME)
11.065 n-Heptane
11.805 trans-1,3-Dichloropropene
12.625 2-Hexanone
14.085 1,1,1,2-Tetrachloroethane
15.696 p-Bromofluorobenzene
17.217 tert-Butylbenzene
18.345 n-Butylbenzene
20.621 Naphthalene
Acquisition Time (min)

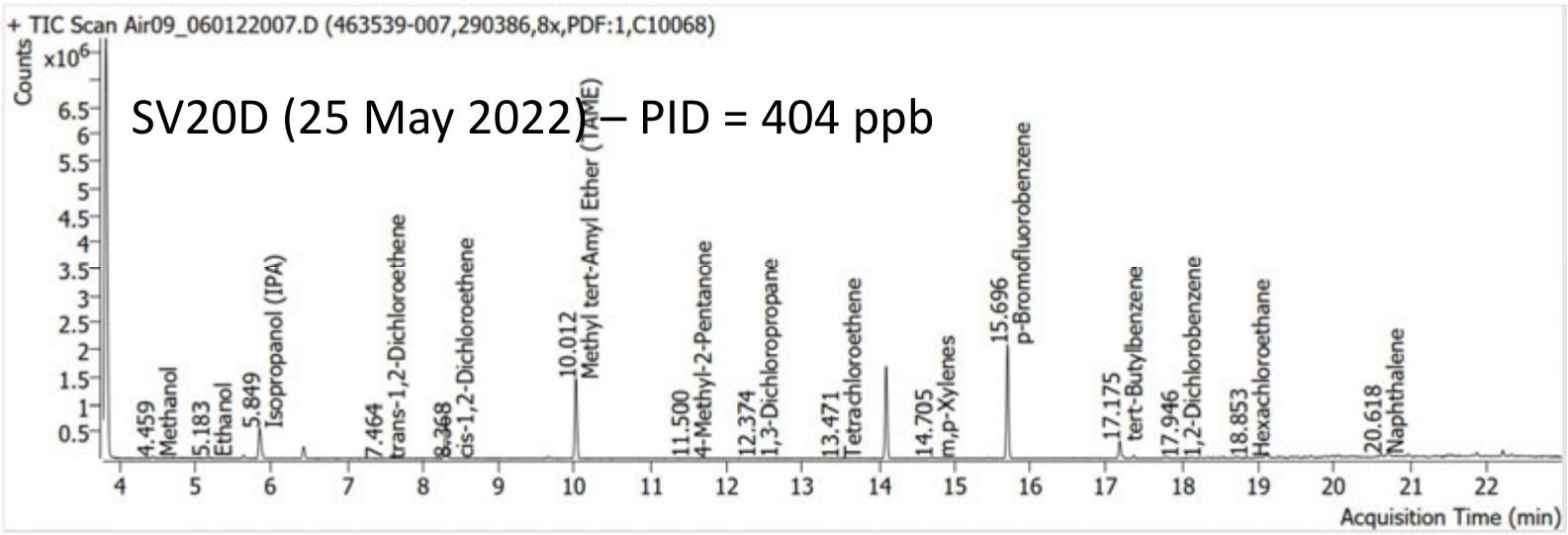

+ TIC Scan Air09_053122026.D (463539-005,290310,50x,PDF:1,C10053)
SV18S (25 May 2022) – PID = 1,240 ppb
Counts
x10^7
4.453 Methanol
5.190 Ethanol
5.849 Isopropanol (IPA)
7.552 Vinyl Acetate
8.298 Chloroform
9.075 1,2-Dichloroethane
10.016 Methyl tert-Amyl Ether (TAME)
12.368 Toluene
13.465 Tetrachloroethene
14.136 Benzene, chloro-
15.095 Styrene
15.699 p-Bromofluorobenzene
17.223 tert-Butylbenzene
17.949 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.621 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_053122022.D (463539-006,290310,2x,PDF:1,C10031)
SV18D (25 May 2022) – PID = 785 ppb
Counts
x10^7
5.826 Acrylonitrile
4.423 Acetaldehyde
5.167 Ethanol
6.717 Carbon Disulfide
7.464 trans-1,2-Dichloroethene
8.347 Isopropyl Ether (DIPE)
9.072 1,2-Dichloroethane
10.013 Methyl tert-Amyl Ether (TAME)
11.473 4-Methyl-2-Pentanone
12.368 Toluene
13.465 Tetrachloroethene
14.705 m,p-Xylenes
15.699 p-Bromofluorobenzene
16.709 1,3,5-Trimethylbenzene
17.362 Benzyl chloride
18.856 Hexachloroethane
20.622 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_053122023.D (463539-006,290310,20x,PDF:1,C10031)
SV18D (25 May 2022) – PID = 785 ppb
Counts
x10^7
4.457 Methanol
5.840 Isopropanol (IPA)
6.717 Carbon Disulfide
8.359 Ethyl Acetate
9.066 1,2-Dichloroethane
10.016 Cyclohexane
11.013 Methyl methacrylate
11.685 trans-1,3-Dichloropropene
12.595 1,3-Dichloropropane
14.094 Benzene, chloro-
15.700 p-Bromofluorobenzene
17.217 1,2,4-Trimethylbenzene
18.342 n-Butylbenzene
20.622 Naphthalene
Acquisition Time (min)

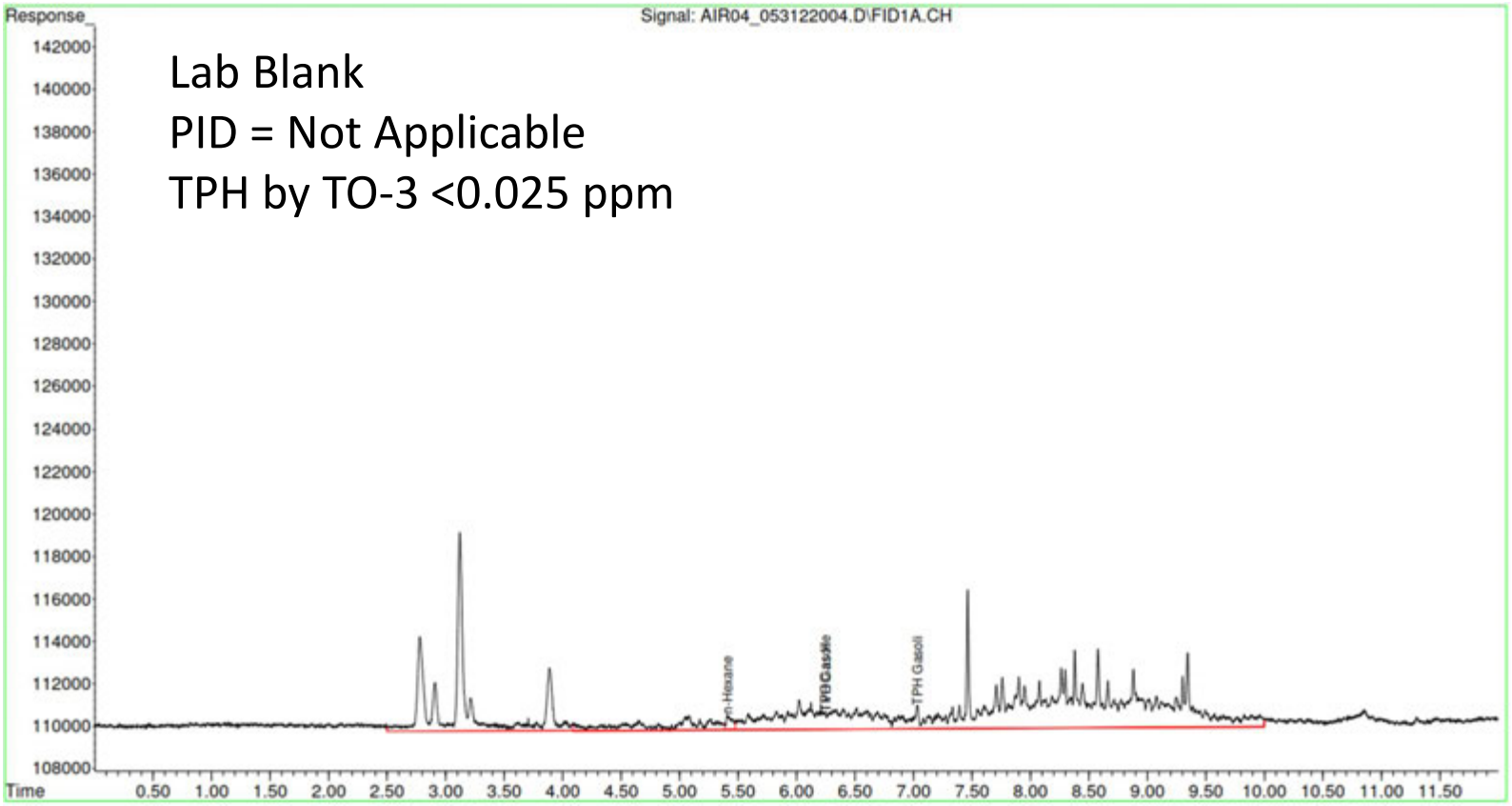

+ TIC Scan Air09_053122024.D (463539-007,290310,2x,PDF:1,C10068)
SV20M (25 May 2022) – PID = 605 ppb
Counts
x10^7
4.423 Acetaldehyde
5.164 Ethanol
5.826 Isopropanol (IPA)
7.775 2-Butanone
8.776 Tetrahydrofuran
10.015 Methyl tert-Amyl Ether (TAME)
11.488 4-Methyl-2-Pentanone
12.368 Toluene
13.465 Tetrachloroethene
14.702 m,p-Xylenes
15.696 p-Bromofluorobenzene
17.220 1,2,4-Trimethylbenzene
17.943 1,2-Dichlorobenzene
18.850 Hexachloroethane
20.621 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_053122025.D (463539-008,290310,2x,PDF:1,C10074)
SV20D (25 May 2022) – PID = 404 ppb
Counts
x10^7
4.423 Acetaldehyde
5.200 Ethanol
5.876 Isopropanol (IPA)
6.711 Carbon Disulfide
7.470 trans-1,2-Dichloroethene
8.371 Ethyl Acetate
9.069 1,2-Dichloroethane
10.012 Methyl tert-Amyl Ether (TAME)
11.497 4-Methyl-2-Pentanone
12.368 1,3-Dichloropropane
13.471 Tetrachloroethene
14.702 m,p-Xylenes
15.699 p-Bromofluorobenzene
17.220 1,2,4-Trimethylbenzene
17.946 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.621 Naphthalene
Acquisition Time (min)

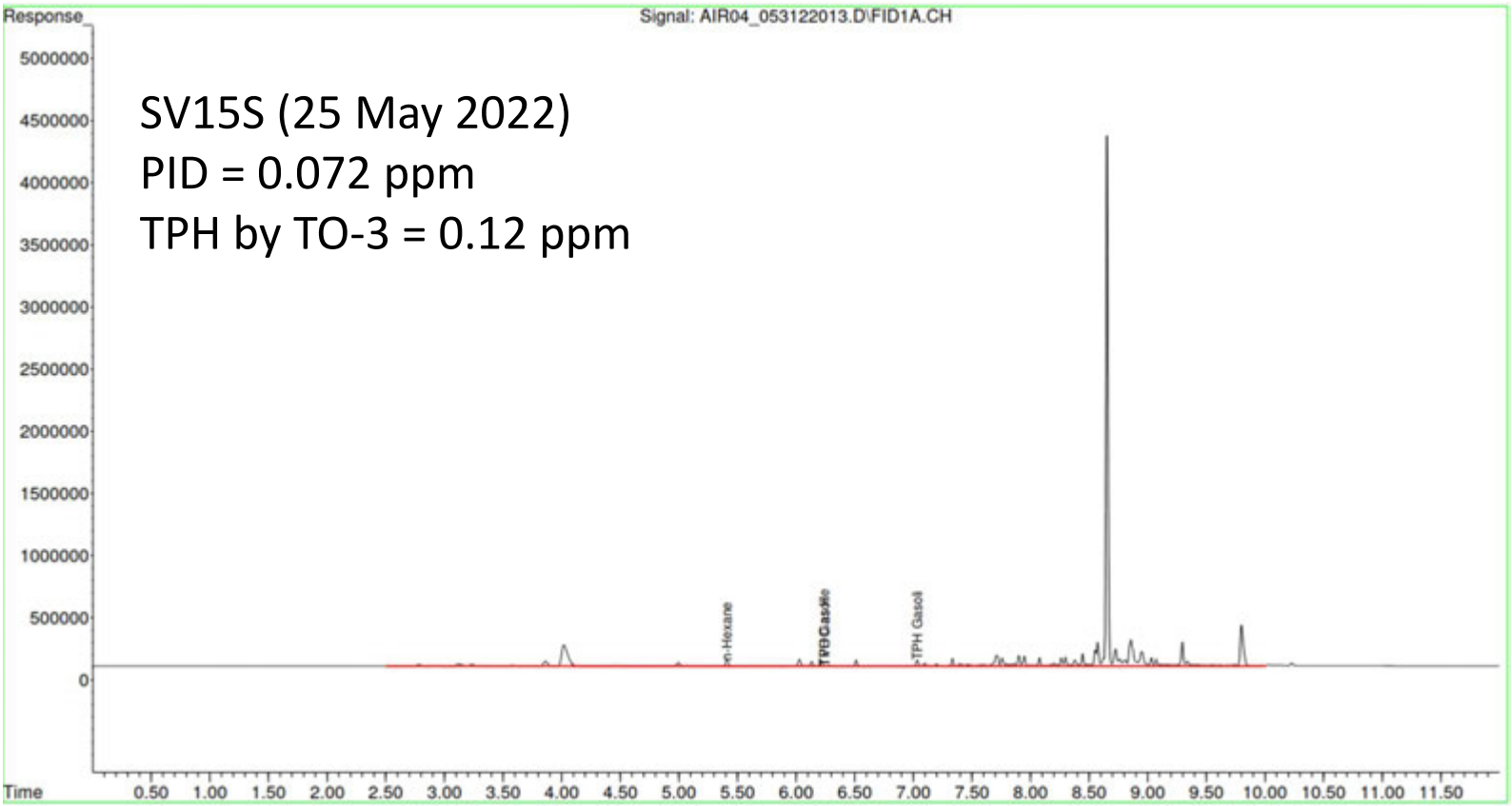

+ TIC Scan Air09_060122007.D (463539-007,290386,8x,PDF:1,C10068)
SV20D (25 May 2022) – PID = 404 ppb
Counts
x10^6
4.459 Methanol
5.183 Ethanol
5.849 Isopropanol (IPA)
7.464 trans-1,2-Dichloroethene
8.368 cis-1,2-Dichloroethene
10.012 Methyl tert-Amyl Ether (TAME)
11.500 4-Methyl-2-Pentanone
12.374 1,3-Dichloropropane
13.471 Tetrachloroethene
14.705 m,p-Xylenes
15.696 p-Bromofluorobenzene
17.175 tert-Butylbenzene
17.946 1,2-Dichlorobenzene
18.853 Hexachloroethane
20.618 Naphthalene
Acquisition Time (min)

May 2022
Soil Vapor Samples

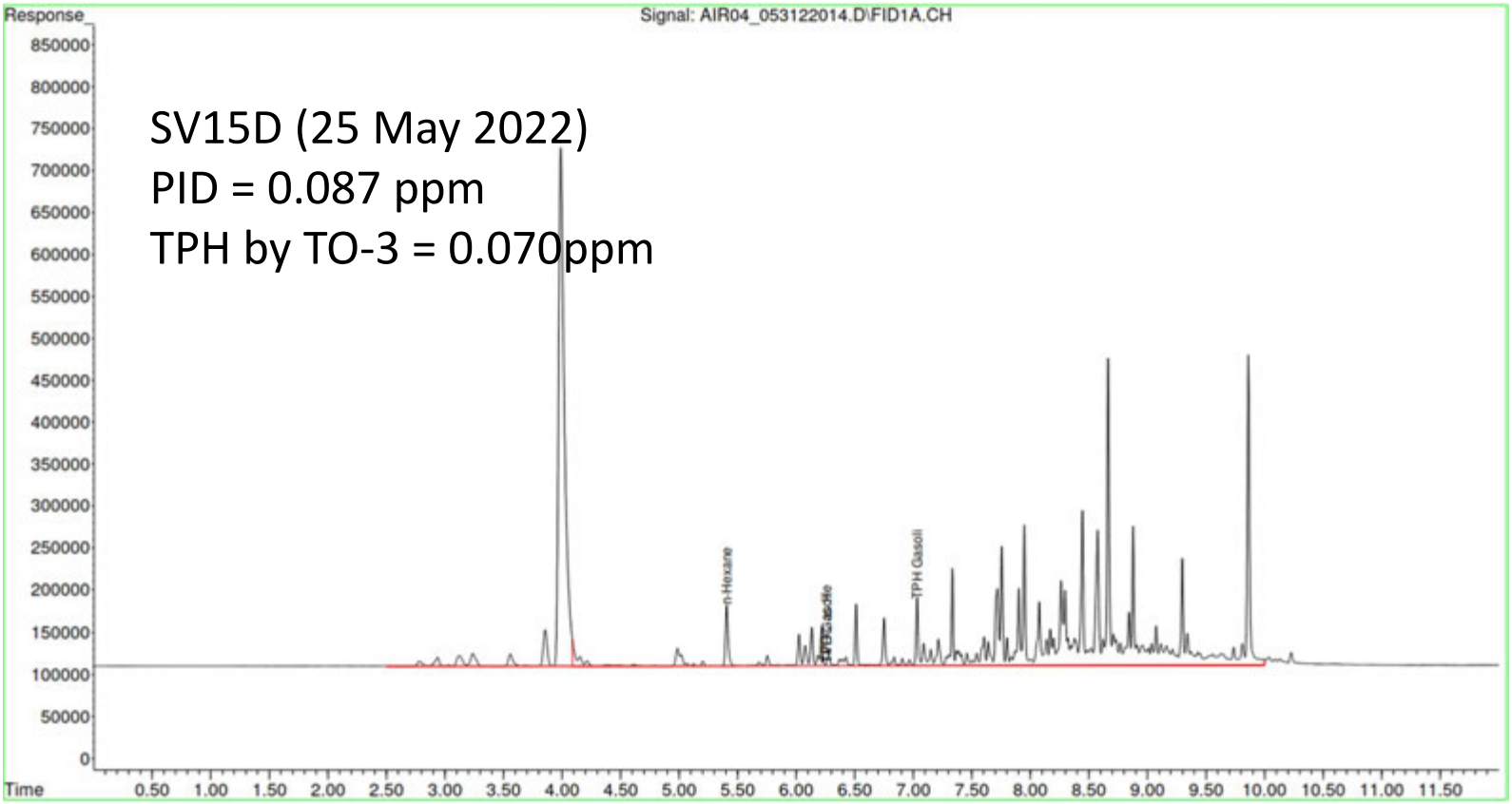
FID Chromatograms

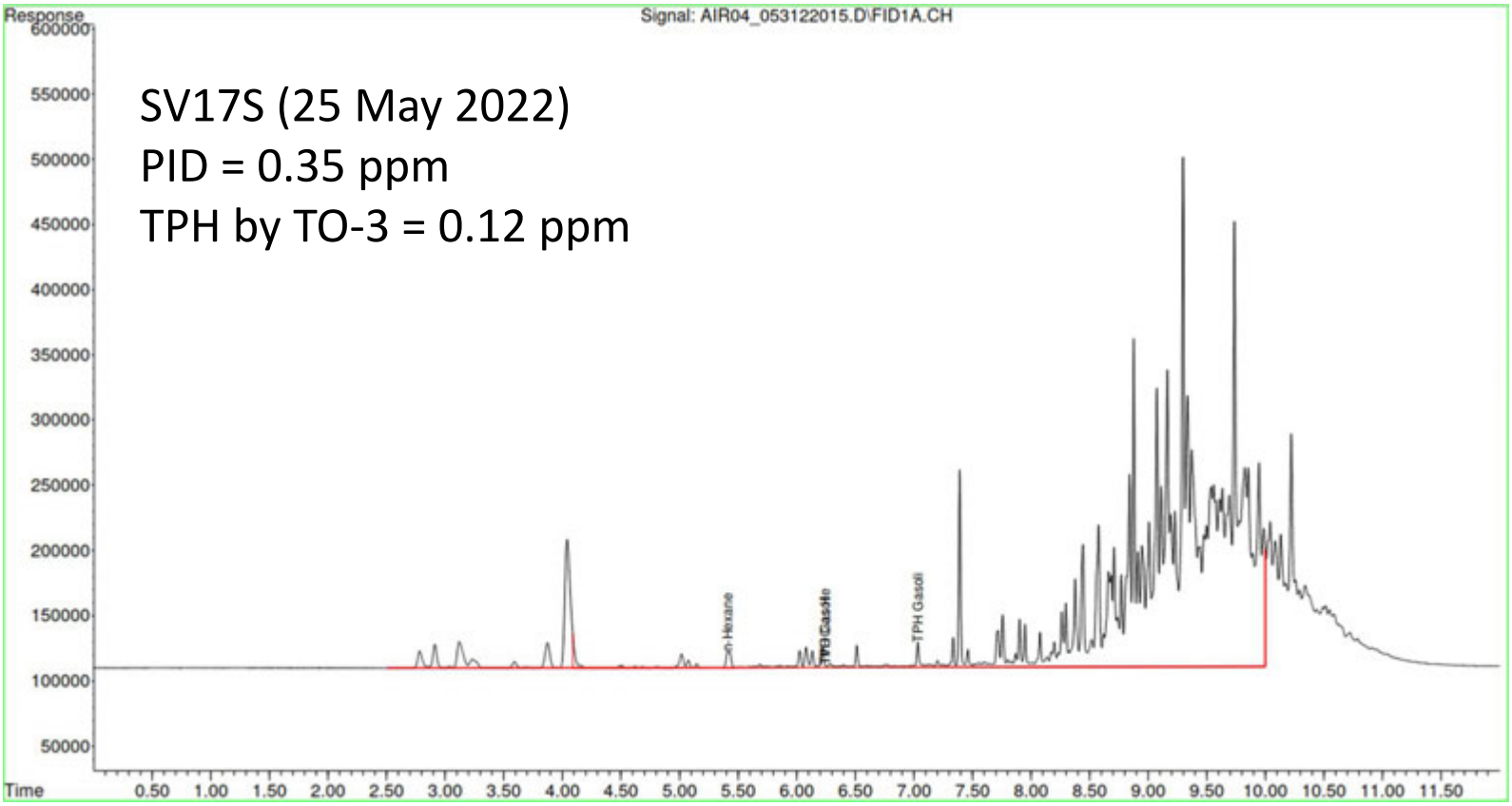


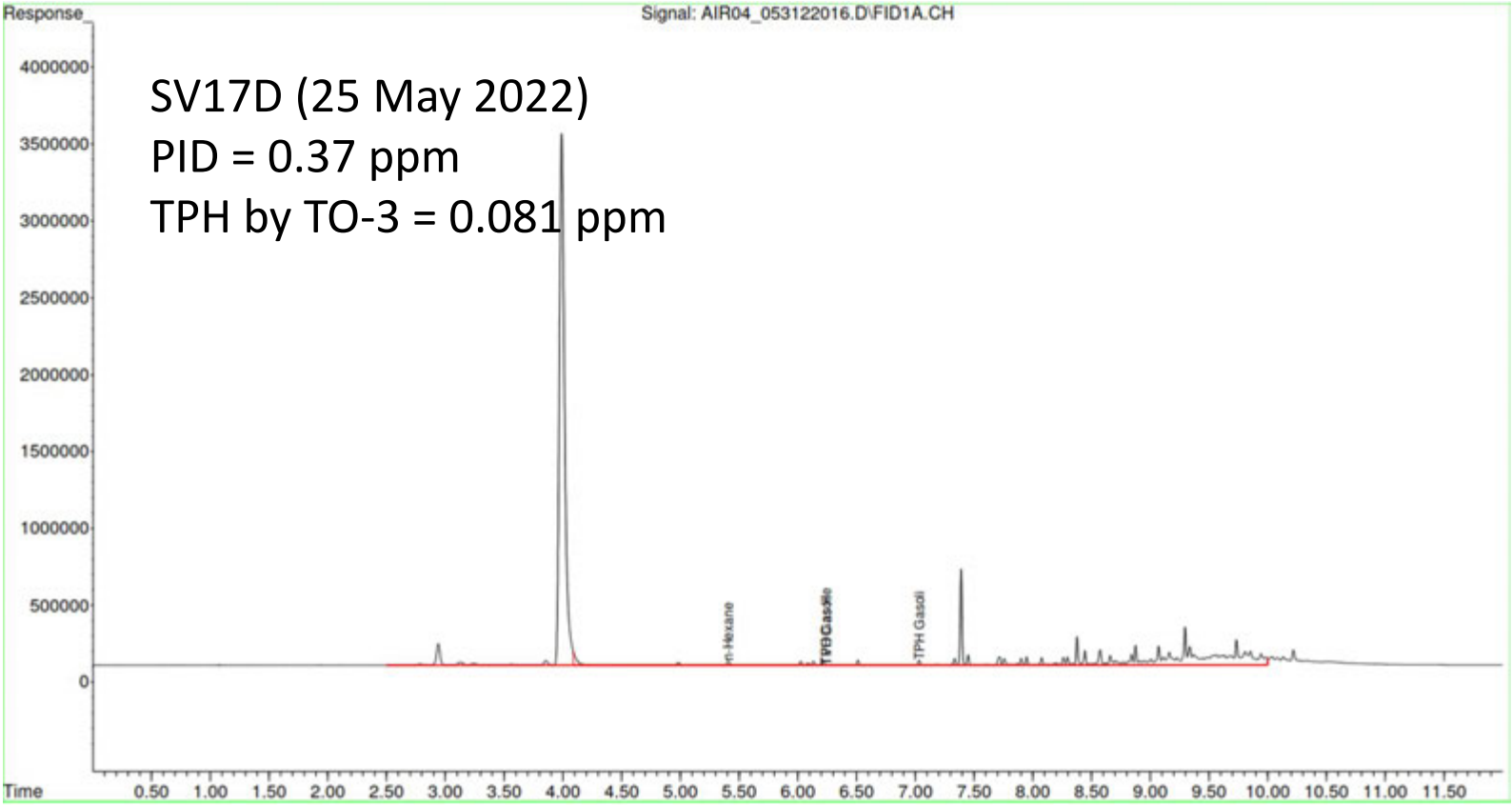
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

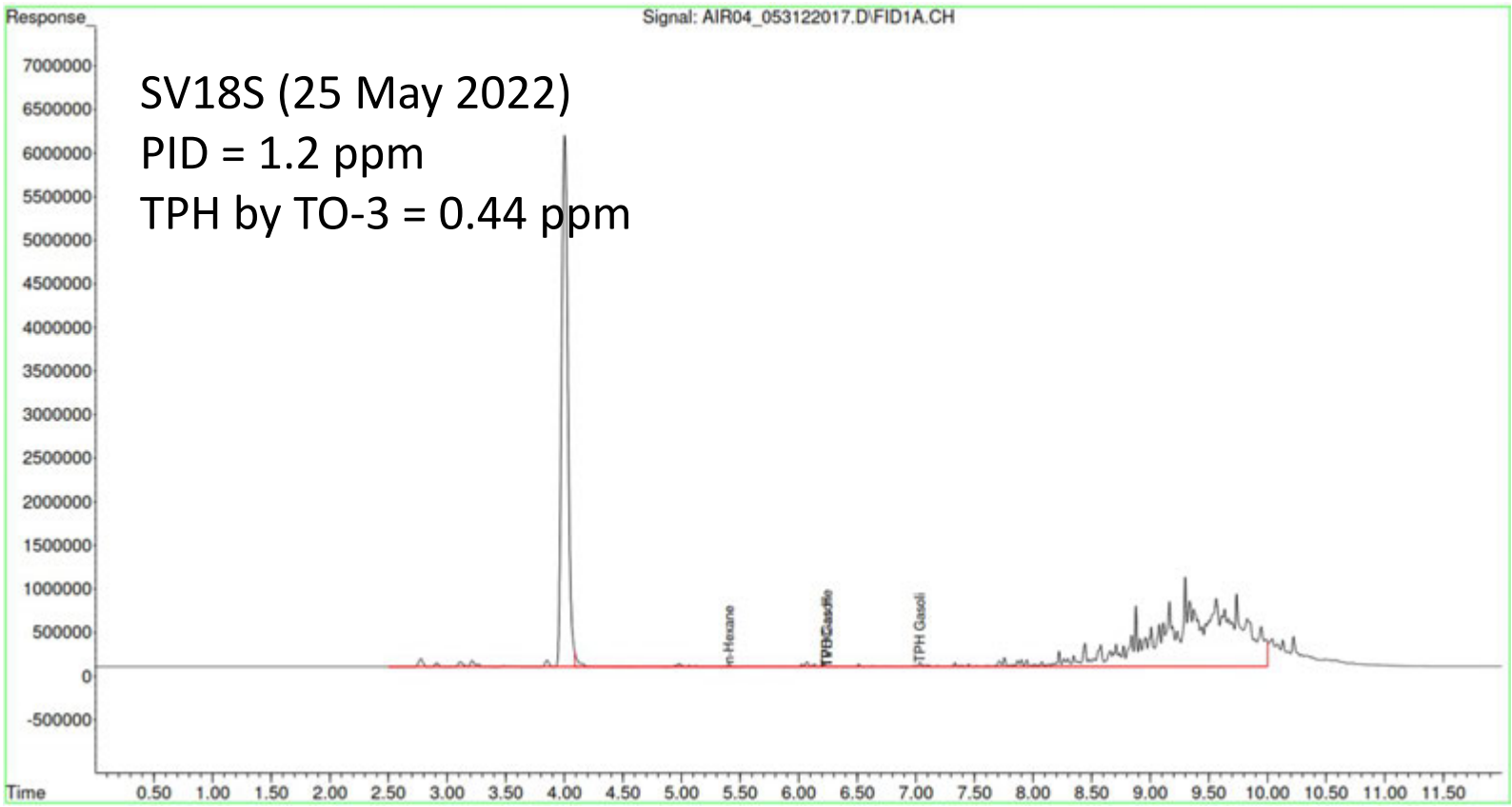


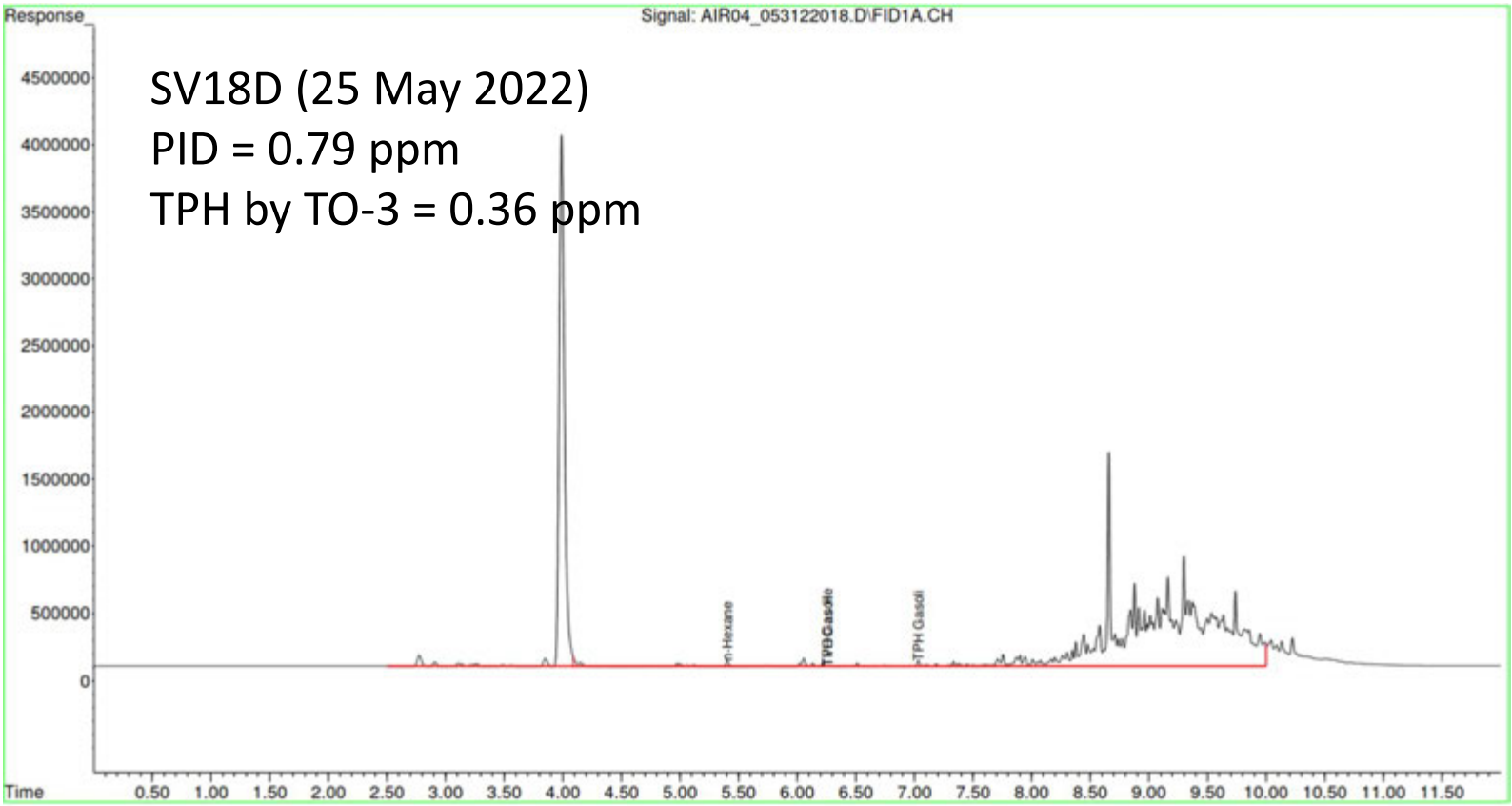
SV15S (25 May 2022)
PID = 0.072 ppm
TPH by TO-3 = 0.12 ppm

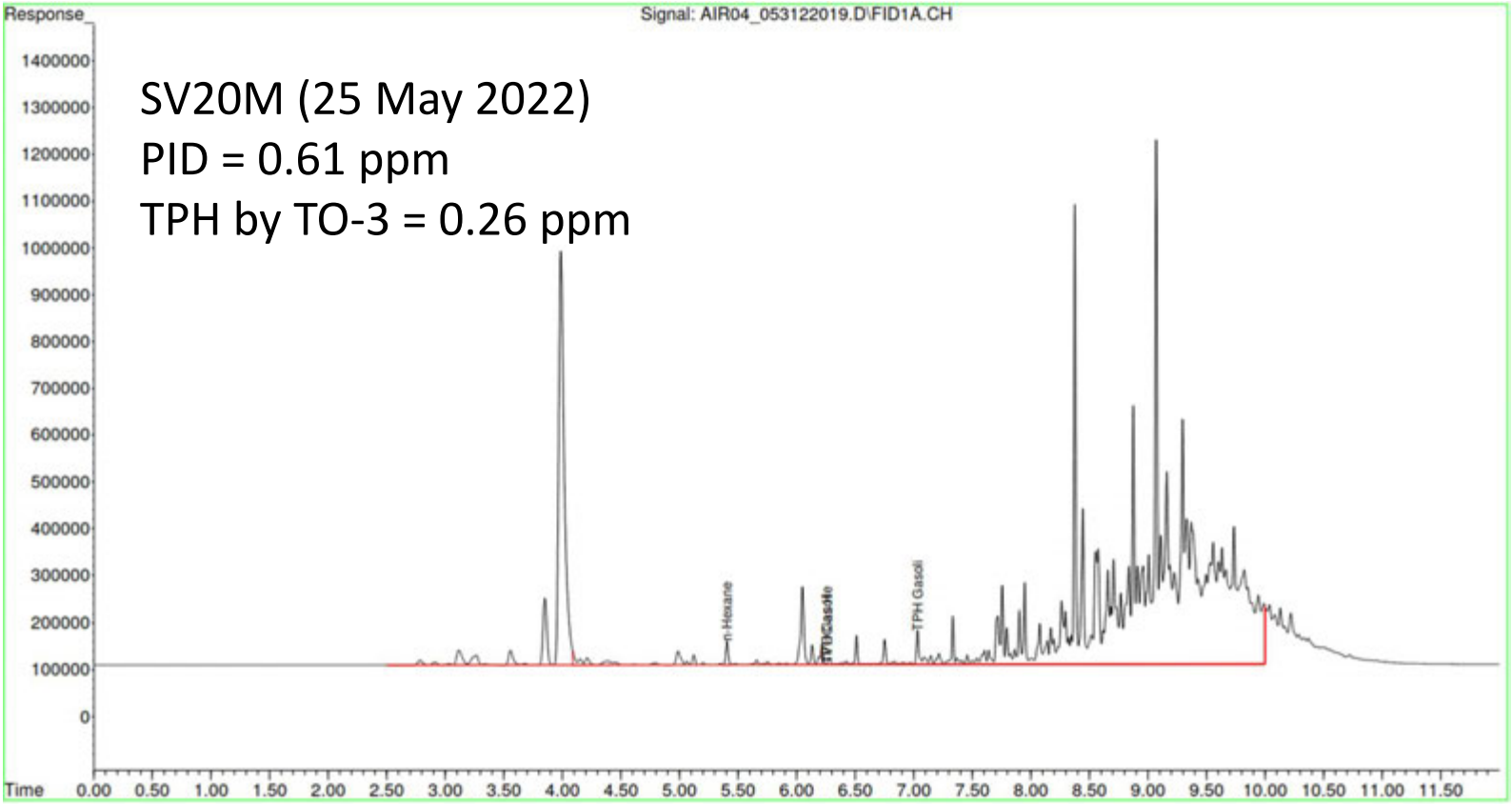

Signal: AIR04_053122014.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoil
SV15D (25 May 2022)
PID = 0.087 ppm
TPH by TO-3 = 0.070ppm

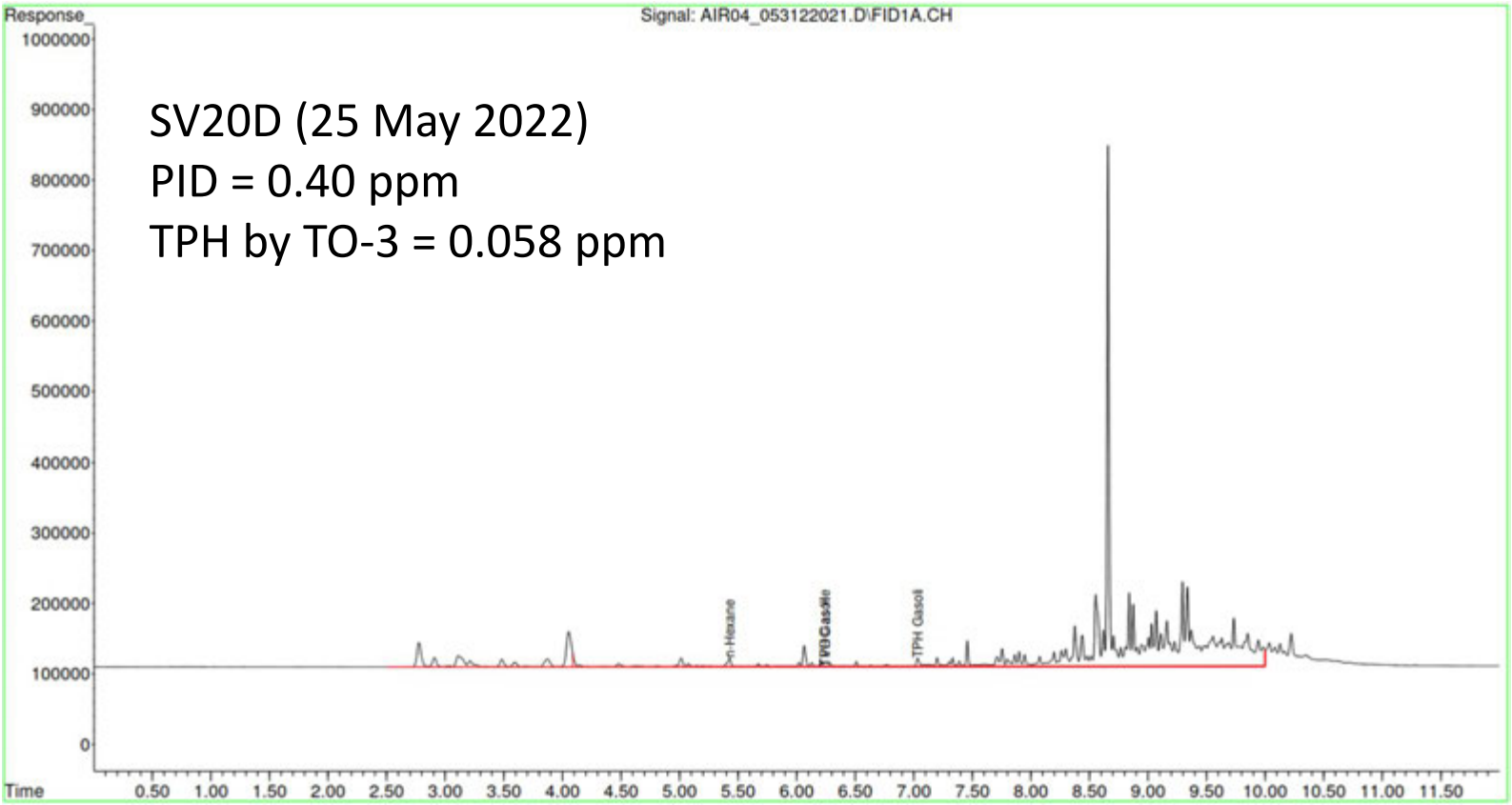

Signal: AIR04_053122015.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoil
SV17S (25 May 2022)
PID = 0.35 ppm
TPH by TO-3 = 0.12 ppm


Signal: AIR04_053122016.D\FID1A.CH
Response
SV17D (25 May 2022)
PID = 0.37 ppm
TPH by TO-3 = 0.081 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time


Signal: AIR04_053122017.D\FID1A.CH
Response
SV18S (25 May 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.44 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

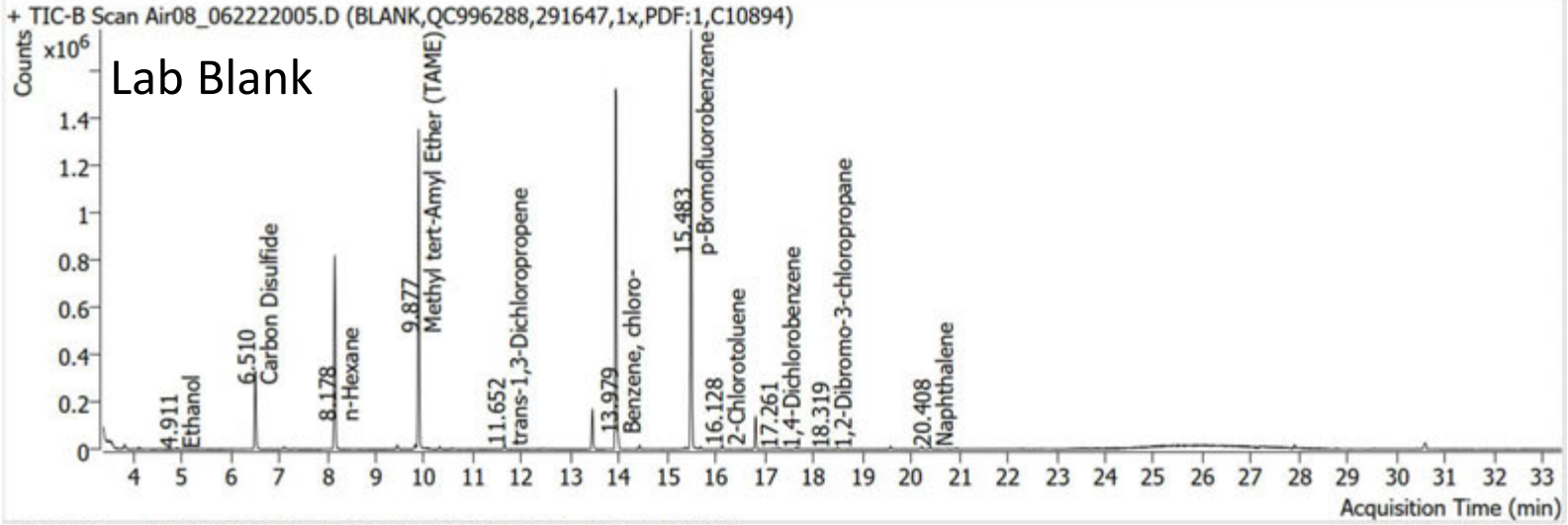

Signal: AIR04_053122018.D\FID1A.CH
Response
SV18D (25 May 2022)
PID = 0.79 ppm
TPH by TO-3 = 0.36 ppm
n-Hexane
TPH Gasoli
Time

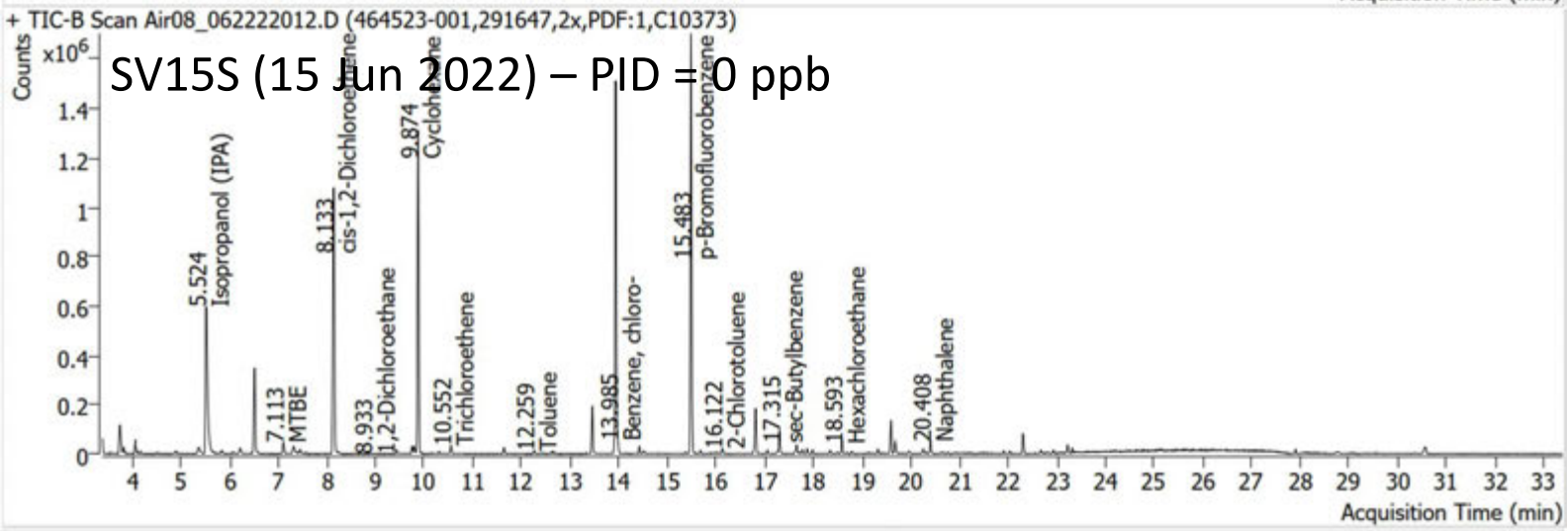

Signal: AIR04_053122019.D\FID1A.CH
Response
SV20M (25 May 2022)
PID = 0.61 ppm
TPH by TO-3 = 0.26 ppm
n-Hexane
TPH Gasoli
Time

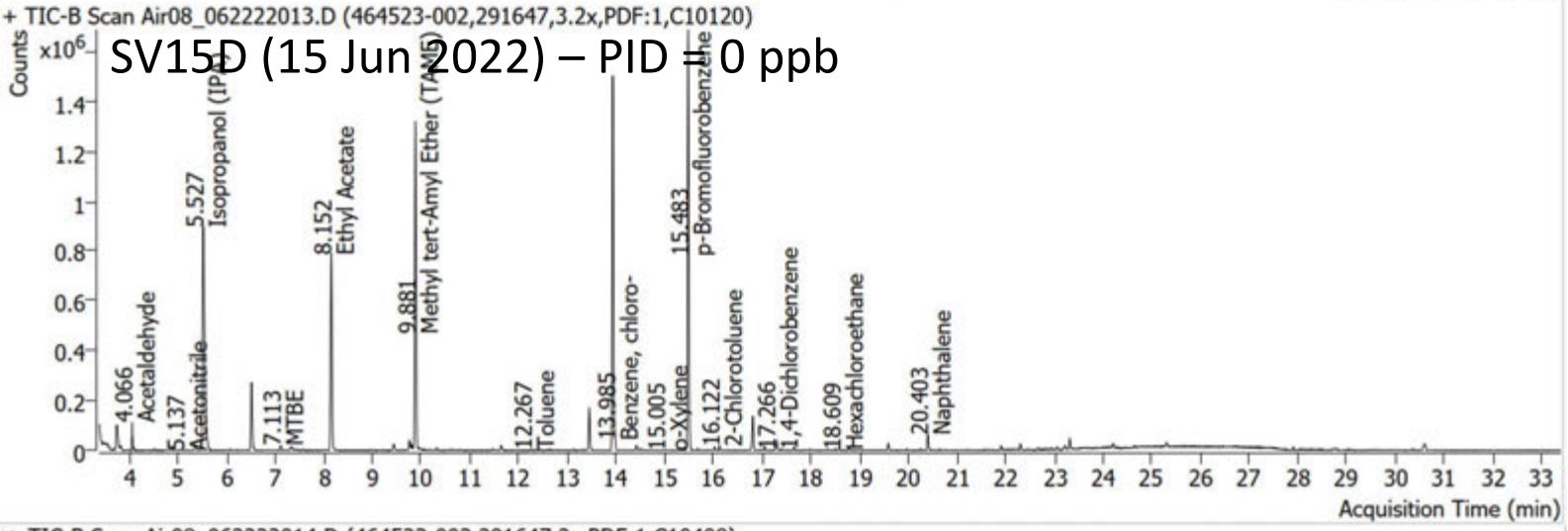

Signal: AIR04_053122021.D\FID1A.CH
Response
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
n-Hexane
TPH Gasoli
SV20D (25 May 2022)
PID = 0.40 ppm
TPH by TO-3 = 0.058 ppm

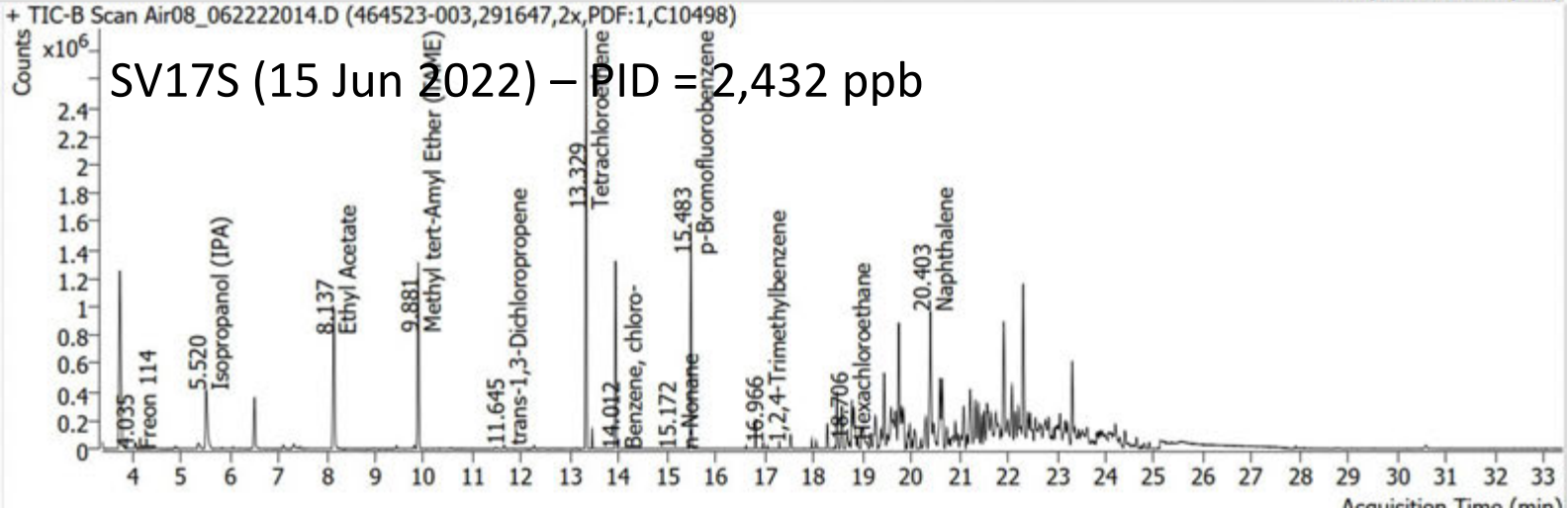
June 2022
Soil Vapor Samples

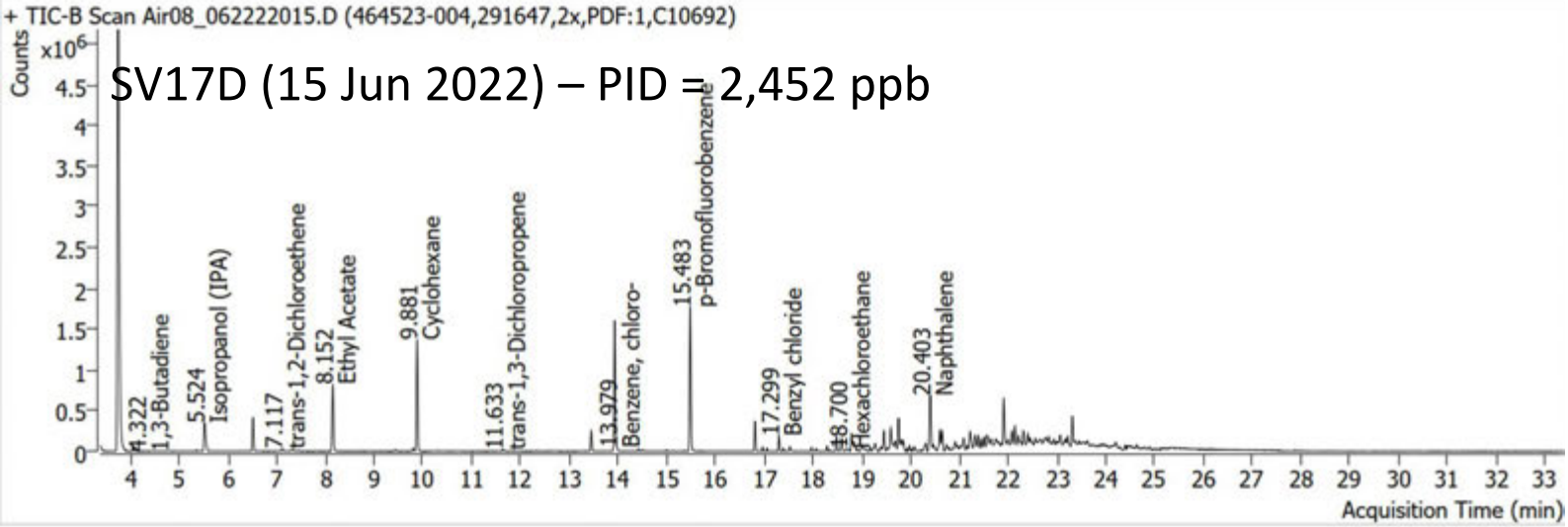
Mass Spec Chromatograms

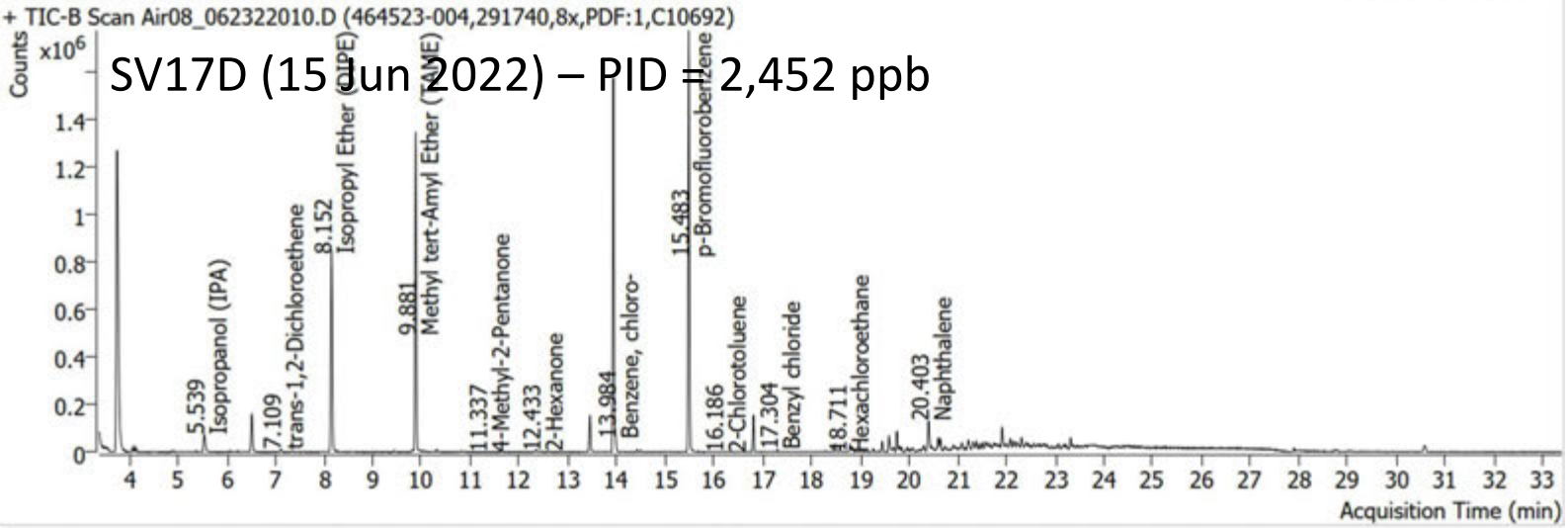

+ TIC-B Scan Air08_062222005.D (BLANK,QC996288,291647,1x,PDF:1,C10894)
Lab Blank
Counts
x10^6
4.911 Ethanol
6.510 Carbon Disulfide
8.178 n-Hexane
9.877 Methyl tert-Amyl Ether (TAME)
11.652 trans-1,3-Dichloropropene
13.979 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.128 2-Chlorotoluene
17.261 1,4-Dichlorobenzene
18.319 1,2-Dibromo-3-chloropropane
20.408 Naphthalene
Acquisition Time (min)

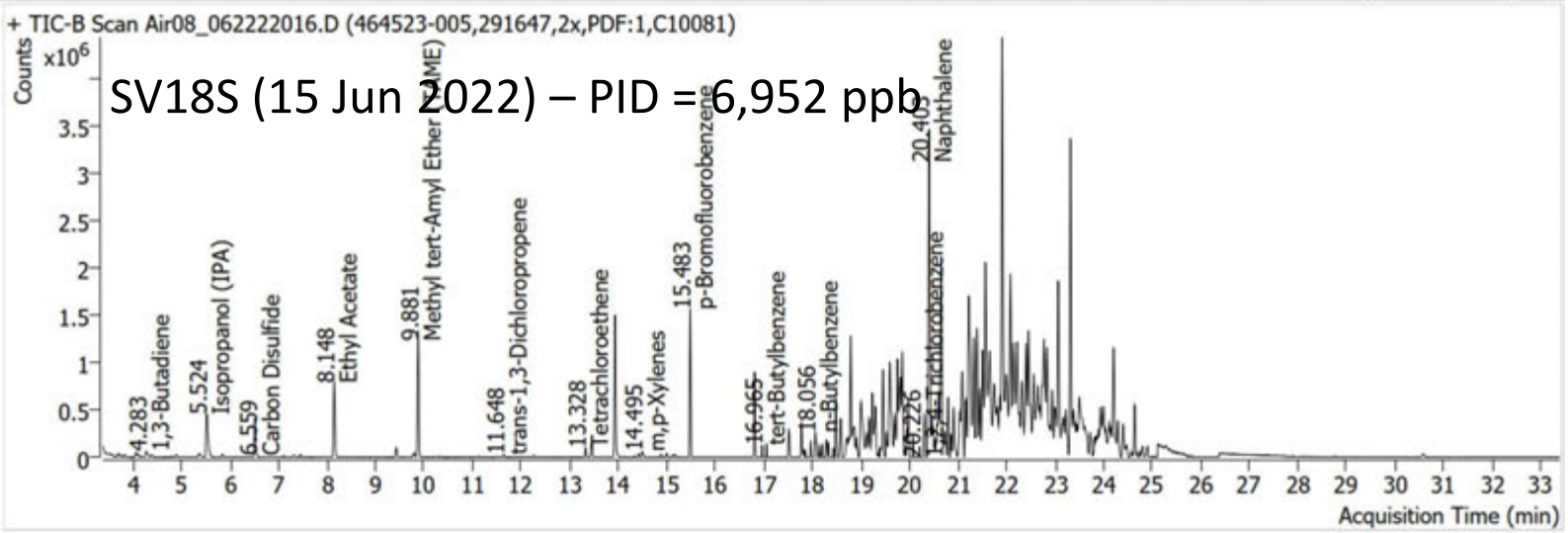

+ TIC-B Scan Air08_062222012.D (464523-001,291647,2x,PDF:1,C10373)
SV15S (15 Jun 2022) – PID = 0 ppb
Counts
x10^6
5.524 Isopropanol (IPA)
7.113 MTBE
8.133 cis-1,2-Dichloroethene
8.933 1,2-Dichloroethane
9.874 Cyclohexane
10.552 Trichloroethene
12.259 Toluene
13.985 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.122 2-Chlorotoluene
17.315 sec-Butylbenzene
18.593 Hexachloroethane
20.408 Naphthalene
Acquisition Time (min)

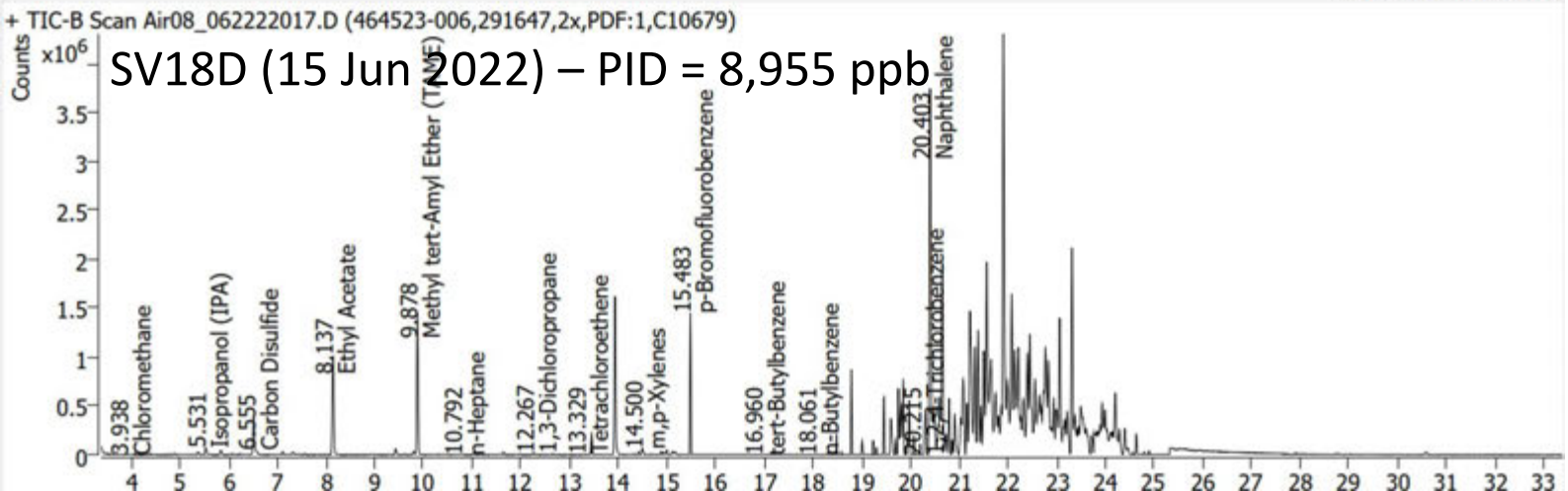

+ TIC-B Scan Air08_062222013.D (464523-002,291647,3.2x,PDF:1,C10120)
SV15D (15 Jun 2022) – PID = 0 ppb
Counts
x10^6
4.066 Acetaldehyde
5.137 Acetonitrile
5.527 Isopropanol (IPA)
7.113 MTBE
8.152 Ethyl Acetate
9.881 Methyl tert-Amyl Ether (TAME)
12.267 Toluene
13.985 Benzene, chloro-
15.005 o-Xylene
15.483 p-Bromofluorobenzene
16.122 2-Chlorotoluene
17.266 1,4-Dichlorobenzene
18.609 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

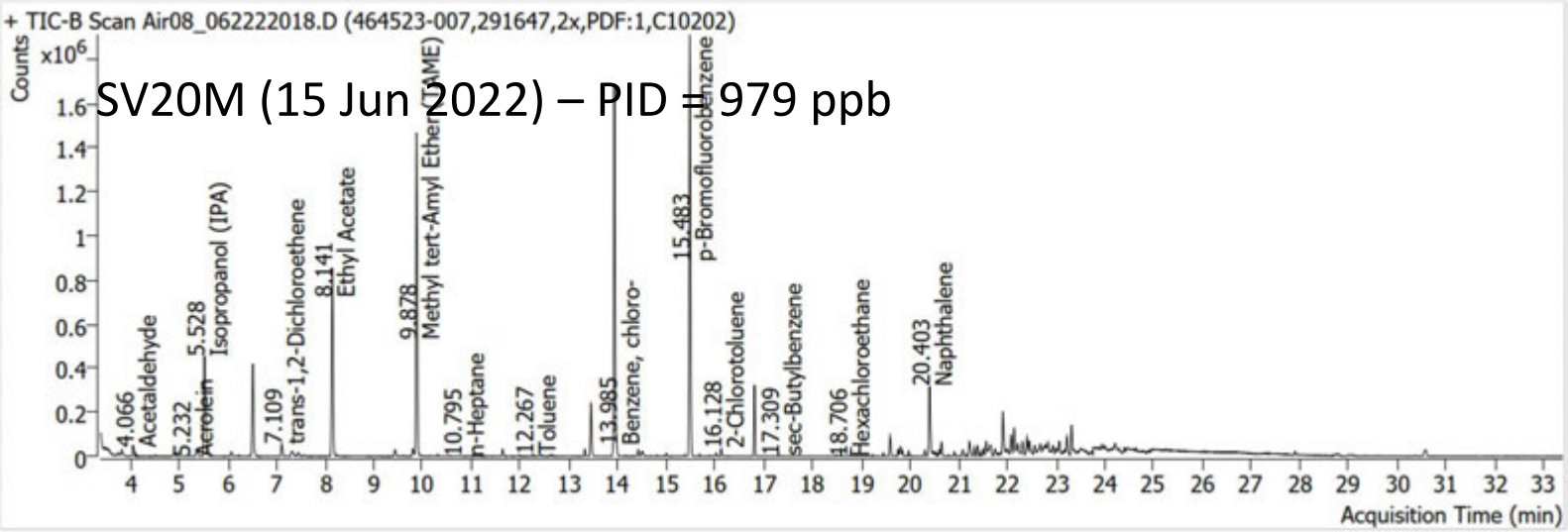

+ TIC-B Scan Air08_062222014.D (464523-003,291647,2x,PDF:1,C10498)
SV17S (15 Jun 2022) – PID = 2,432 ppb
Counts
x10^6
4.035 Freon 114
5.520 Isopropanol (IPA)
8.137 Ethyl Acetate
9.881 Methyl tert-Amyl Ether (TAME)
11.645 trans-1,3-Dichloropropene
13.329 Tetrachloroethene
14.012 Benzene, chloro-
15.172 n-Nonane
15.483 p-Bromofluorobenzene
16.966 1,2,4-Trimethylbenzene
18.706 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

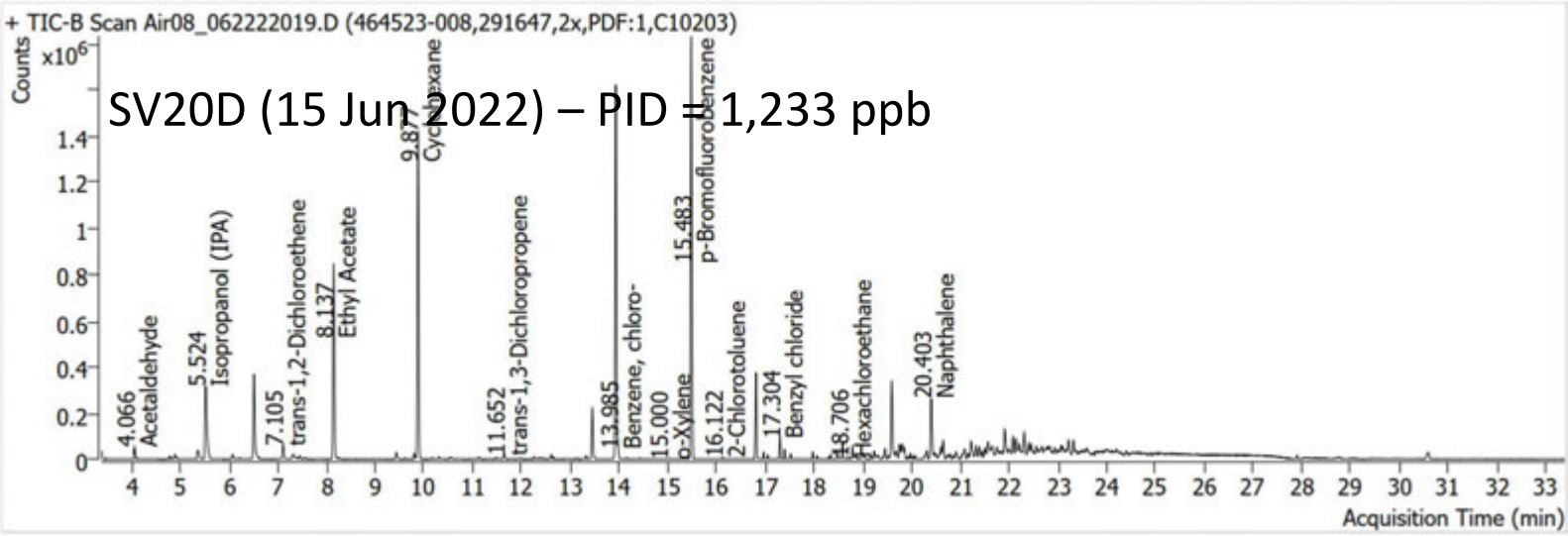

+ TIC-B Scan Air08_062222015.D (464523-004,291647,2x,PDF:1,C10692)
SV17D (15 Jun 2022) – PID = 2,452 ppb
Counts
x10^6
4.322 1,3-Butadiene
5.524 Isopropanol (IPA)
7.117 trans-1,2-Dichloroethene
8.152 Ethyl Acetate
9.881 Cyclohexane
11.633 trans-1,3-Dichloropropene
13.979 Benzene, chloro-
15.483 p-Bromofluorobenzene
17.299 Benzyl chloride
18.700 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_062322010.D (464523-004,291740,8x,PDF:1,C10692)
SV17D (15 Jun 2022) – PID = 2,452 ppb
Counts
x10^6
5.539 Isopropanol (IPA)
7.109 trans-1,2-Dichloroethene
8.152 Isopropyl Ether (DIPE)
9.881 Methyl tert-Amyl Ether (TAME)
11.337 4-Methyl-2-Pentanone
12.433 2-Hexanone
13.984 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.186 2-Chlorotoluene
17.304 Benzyl chloride
18.711 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_062222016.D (464523-005,291647,2x,PDF:1,C10081)
SV18S (15 Jun 2022) – PID = 6,952 ppb
Counts
x10^6
4.283 1,3-Butadiene
5.524 Isopropanol (IPA)
6.559 Carbon Disulfide
8.148 Ethyl Acetate
9.881 Methyl tert-Amyl Ether (TAME)
11.648 trans-1,3-Dichloropropene
13.328 Tetrachloroethene
14.495 m,p-Xylenes
15.483 p-Bromofluorobenzene
16.965 tert-Butylbenzene
18.056 n-Butylbenzene
20.226 1,2,4-Trichlorobenzene
20.403 Naphthalene
Acquisition Time (min)

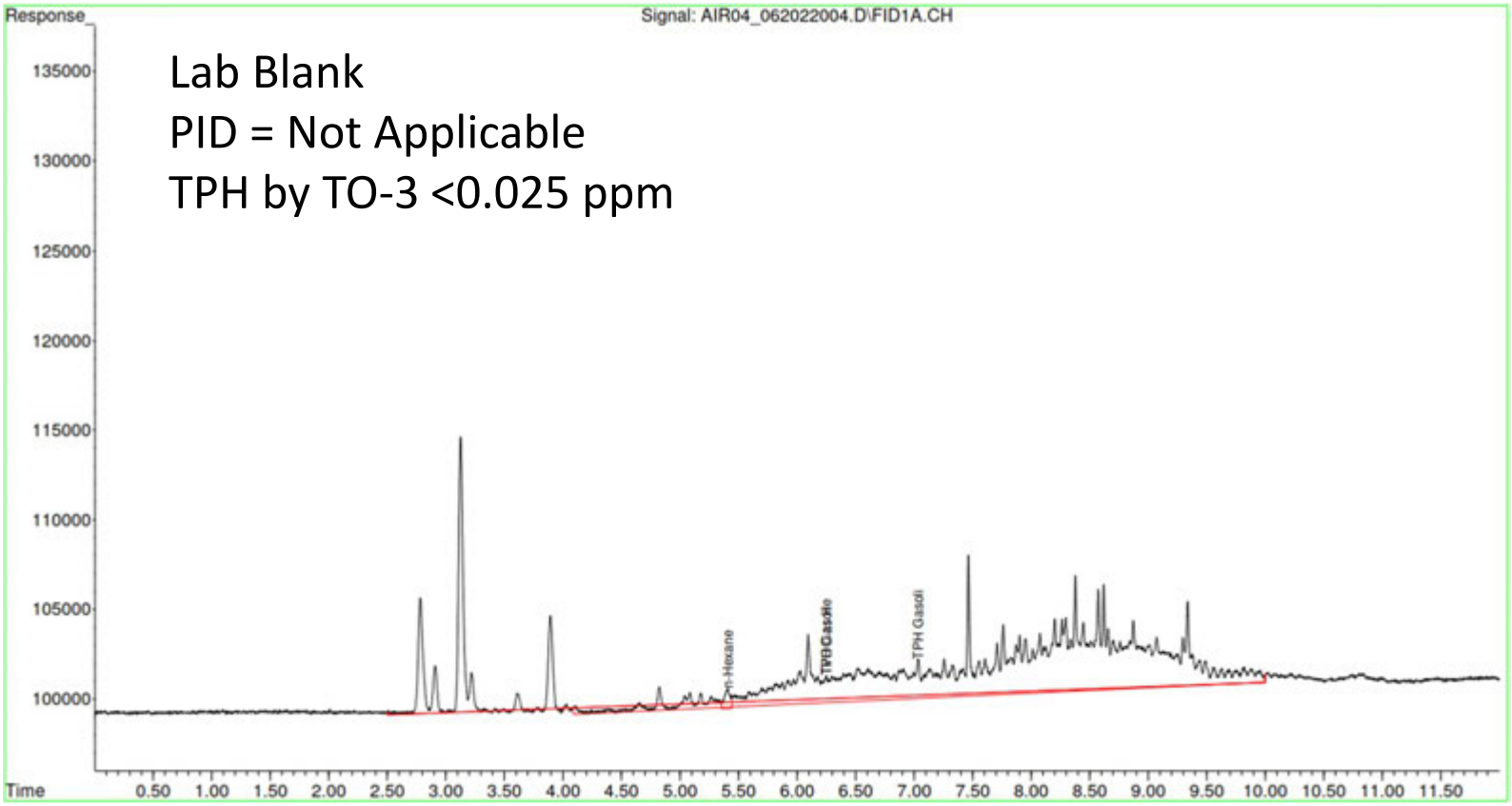

+ TIC-B Scan Air08_062222017.D (464523-006,291647,2x,PDF:1,C10679)
SV18D (15 Jun 2022) – PID = 8,955 ppb
Counts
x10^6
3.938 Chloromethane
5.531 Isopropanol (IPA)
6.555 Carbon Disulfide
8.137 Ethyl Acetate
9.878 Methyl tert-Amyl Ether (TAME)
10.792 n-Heptane
12.267 1,3-Dichloropropane
13.329 Tetrachloroethene
14.500 m,p-Xylenes
15.483 p-Bromofluorobenzene
16.960 tert-Butylbenzene
18.061 n-Butylbenzene
20.215 1,2,4-Trichlorobenzene
20.403 Naphthalene

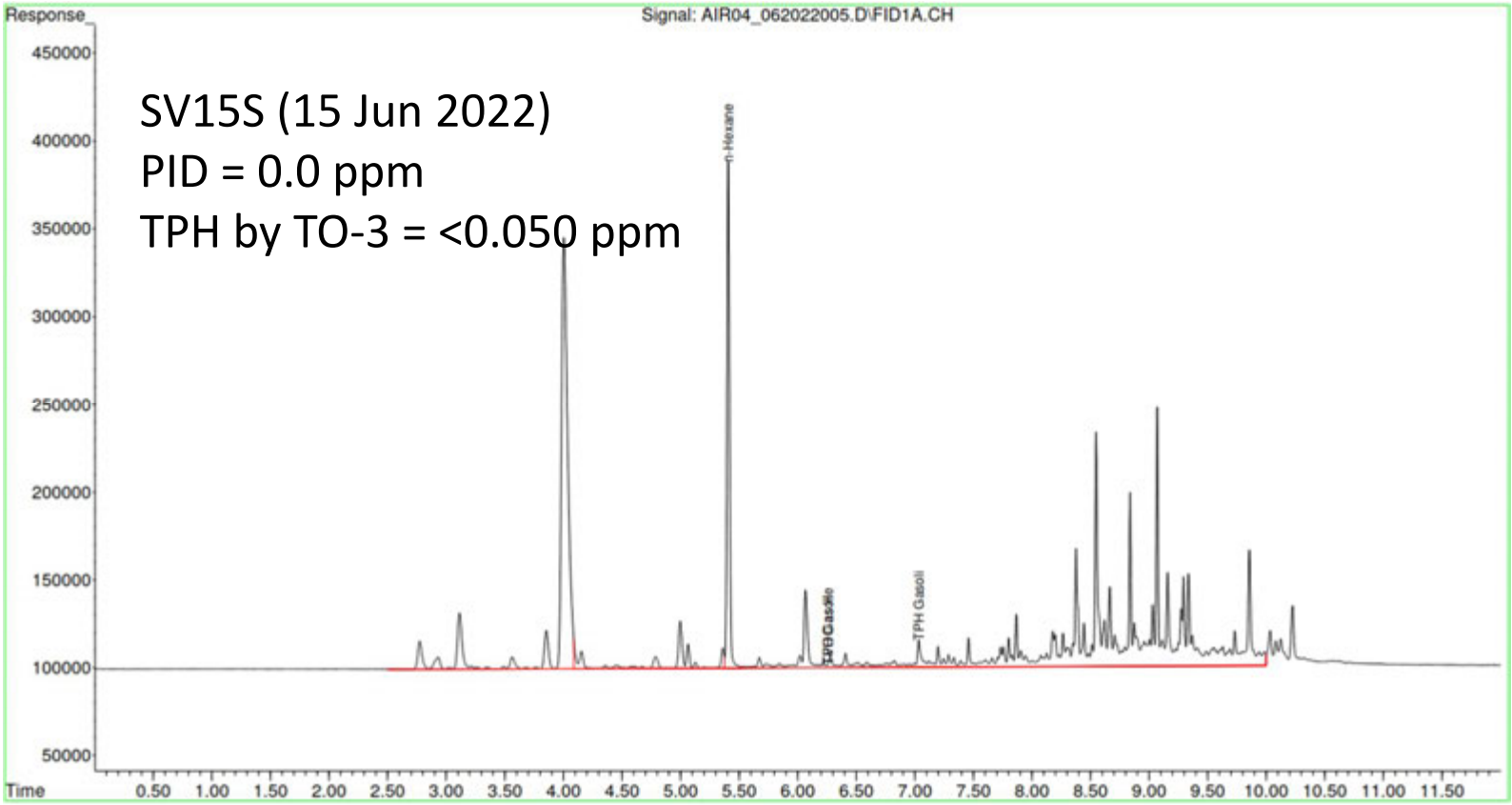

+ TIC-B Scan Air08_062222018.D (464523-007,291647,2x,PDF:1,C10202)
SV20M (15 Jun 2022) – PID = 979 ppb
Counts
x10^6
4.066 Acetaldehyde
5.232 Acrolein
5.528 Isopropanol (IPA)
7.109 trans-1,2-Dichloroethene
8.141 Ethyl Acetate
9.878 Methyl tert-Amyl Ether (TAME)
10.795 n-Heptane
12.267 Toluene
13.985 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.128 2-Chlorotoluene
17.309 sec-Butylbenzene
18.706 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

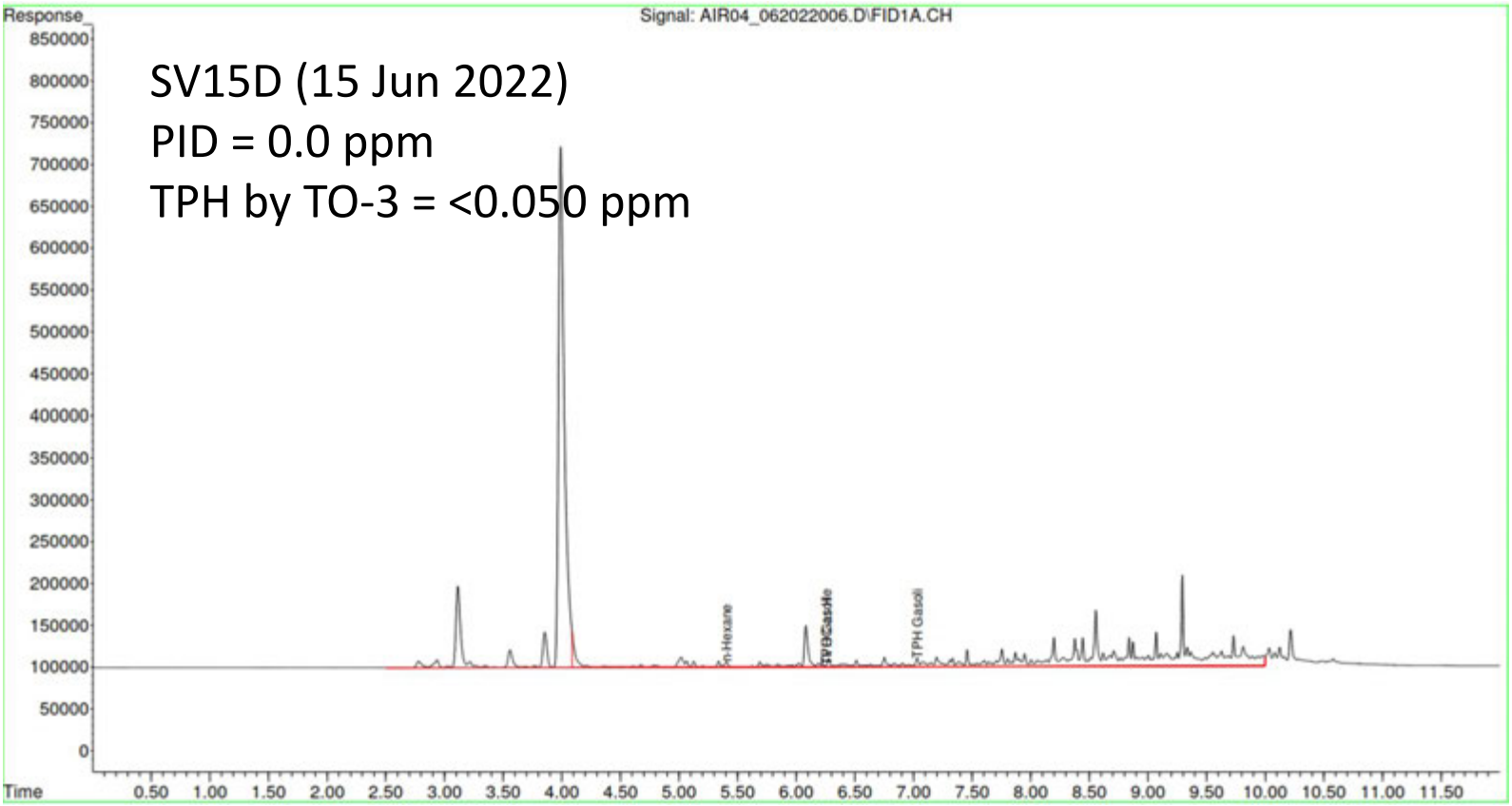

+ TIC-B Scan Air08_062222019.D (464523-008,291647,2x,PDF:1,C10203)
SV20D (15 Jun 2022) – PID = 1,233 ppb
Counts
x10^6
4.066 Acetaldehyde
5.524 Isopropanol (IPA)
7.105 trans-1,2-Dichloroethene
8.137 Ethyl Acetate
9.87 Cyclohexane
11.652 trans-1,3-Dichloropropene
13.985 Benzene, chloro-
15.000 o-Xylene
15.483 p-Bromofluorobenzene
16.122 2-Chlorotoluene
17.304 Benzyl chloride
18.706 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

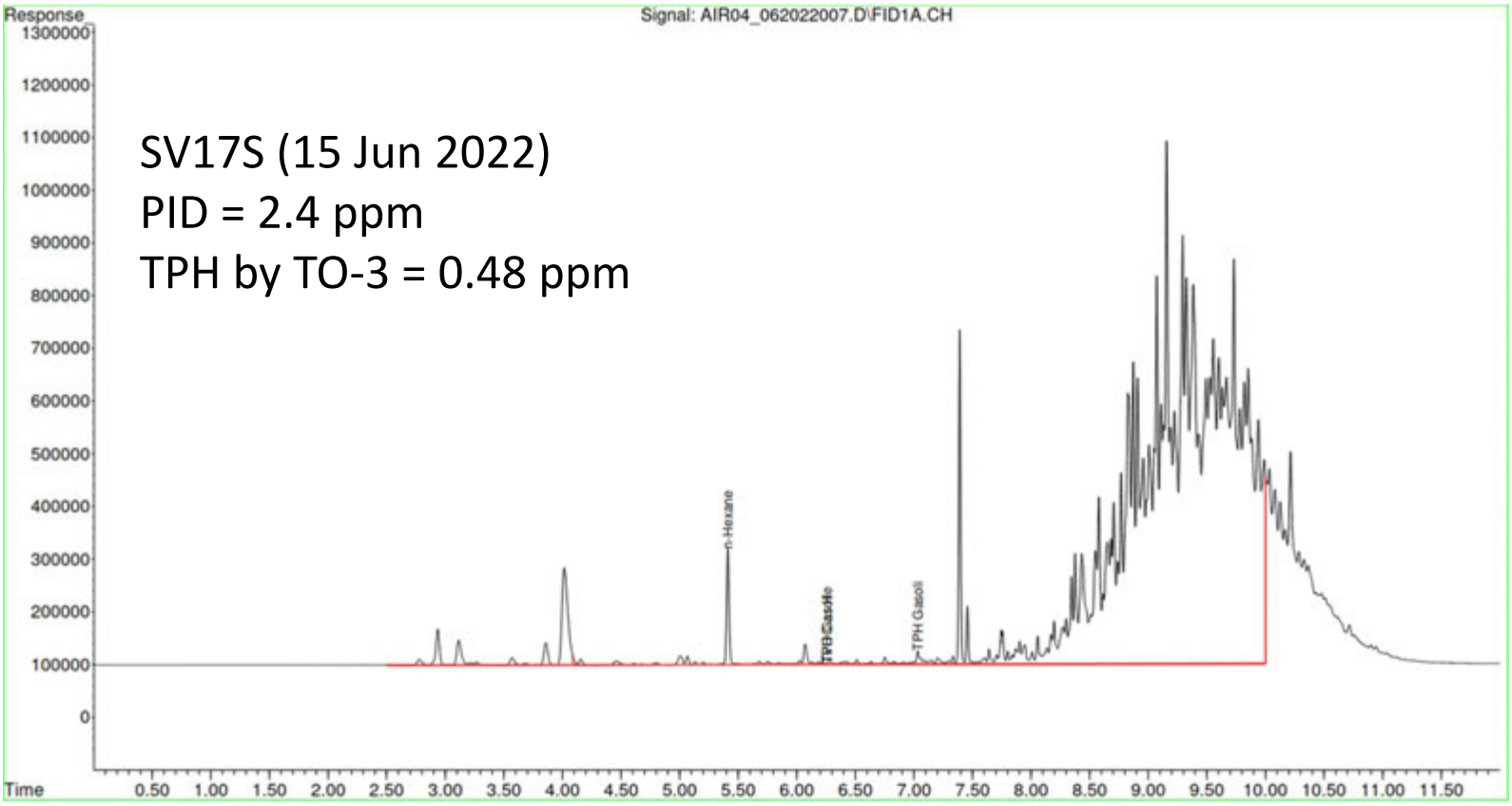
June 2022
Soil Vapor Samples

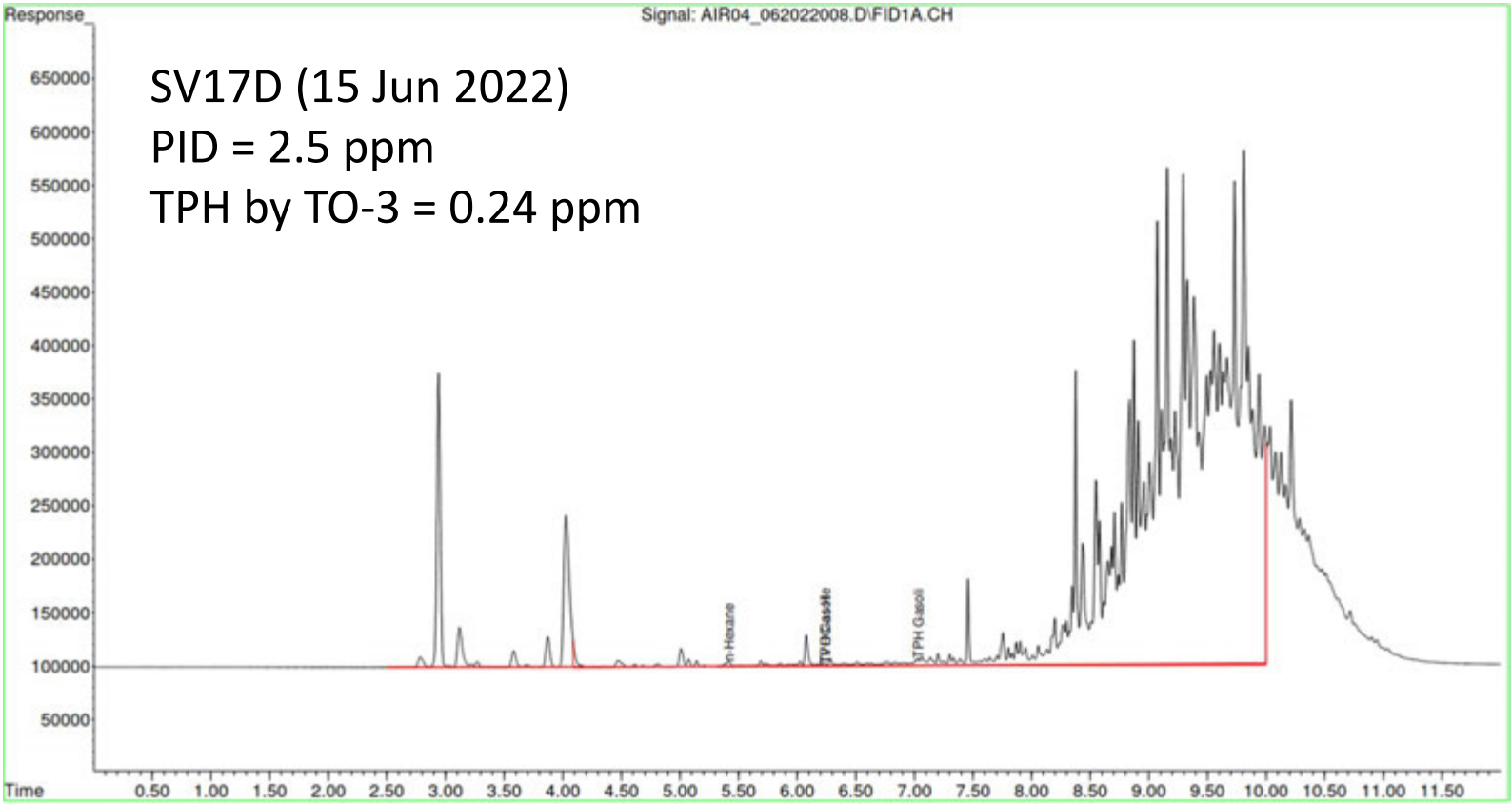
FID Chromatograms

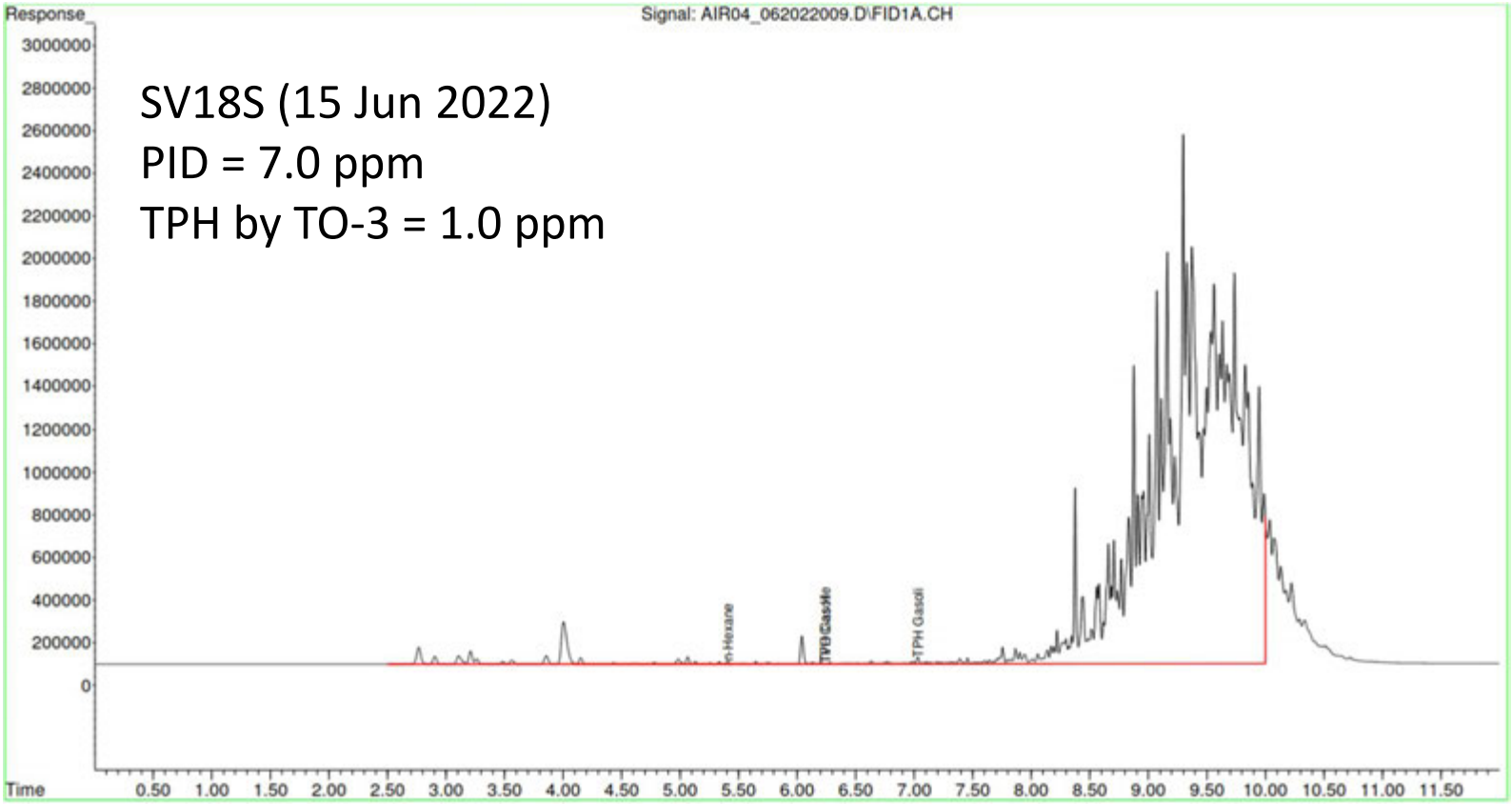

Signal: AIR04_062022004.D\FID1A.CH
Response
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

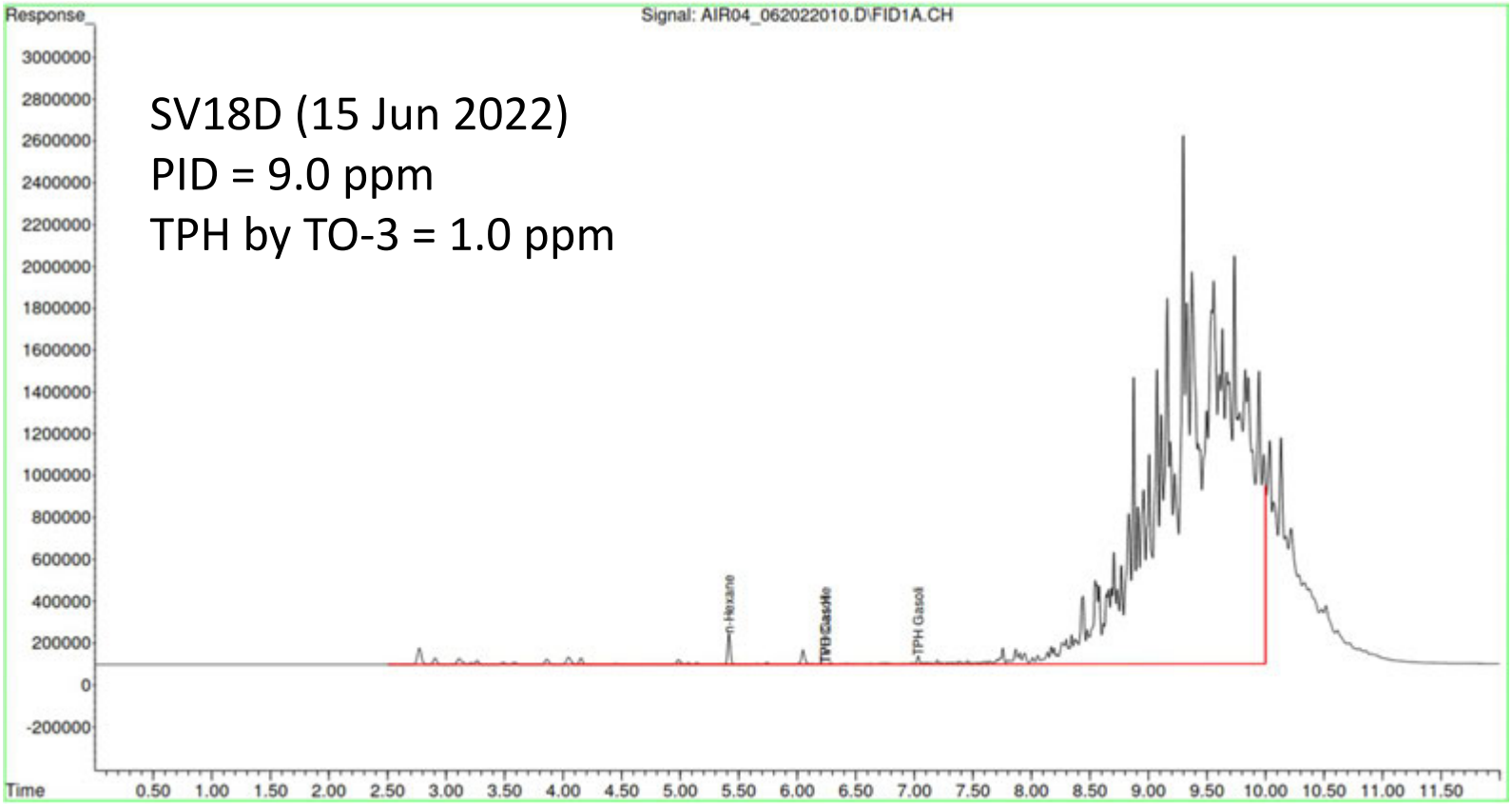

Signal: AIR04_062022005.D\FID1A.CH
Response
SV15S (15 Jun 2022)
PID = 0.0 ppm
TPH by TO-3 = <0.050 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

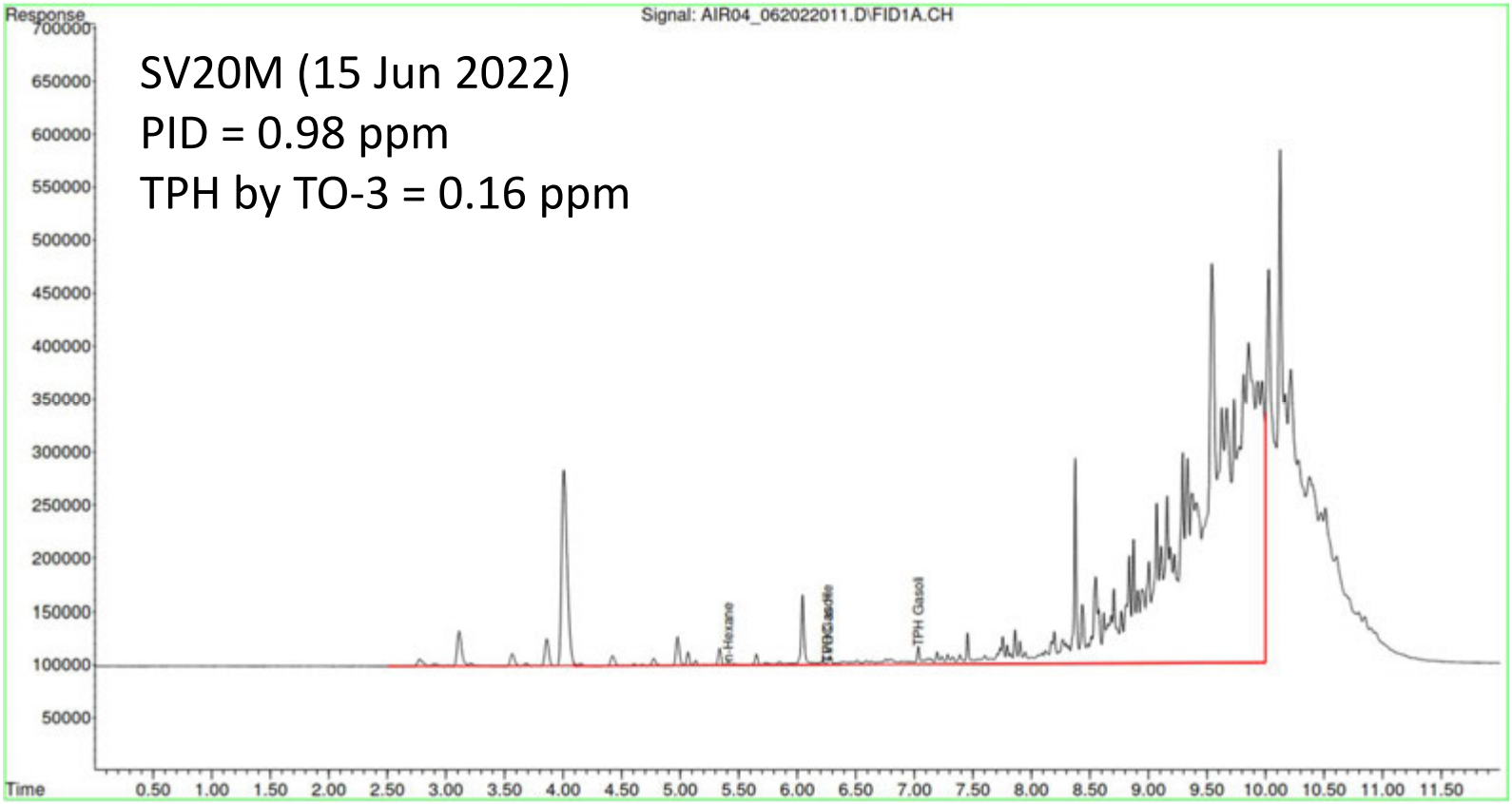

Signal: AIR04_062022006.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
SV15D (15 Jun 2022)
PID = 0.0 ppm
TPH by TO-3 = <0.050 ppm

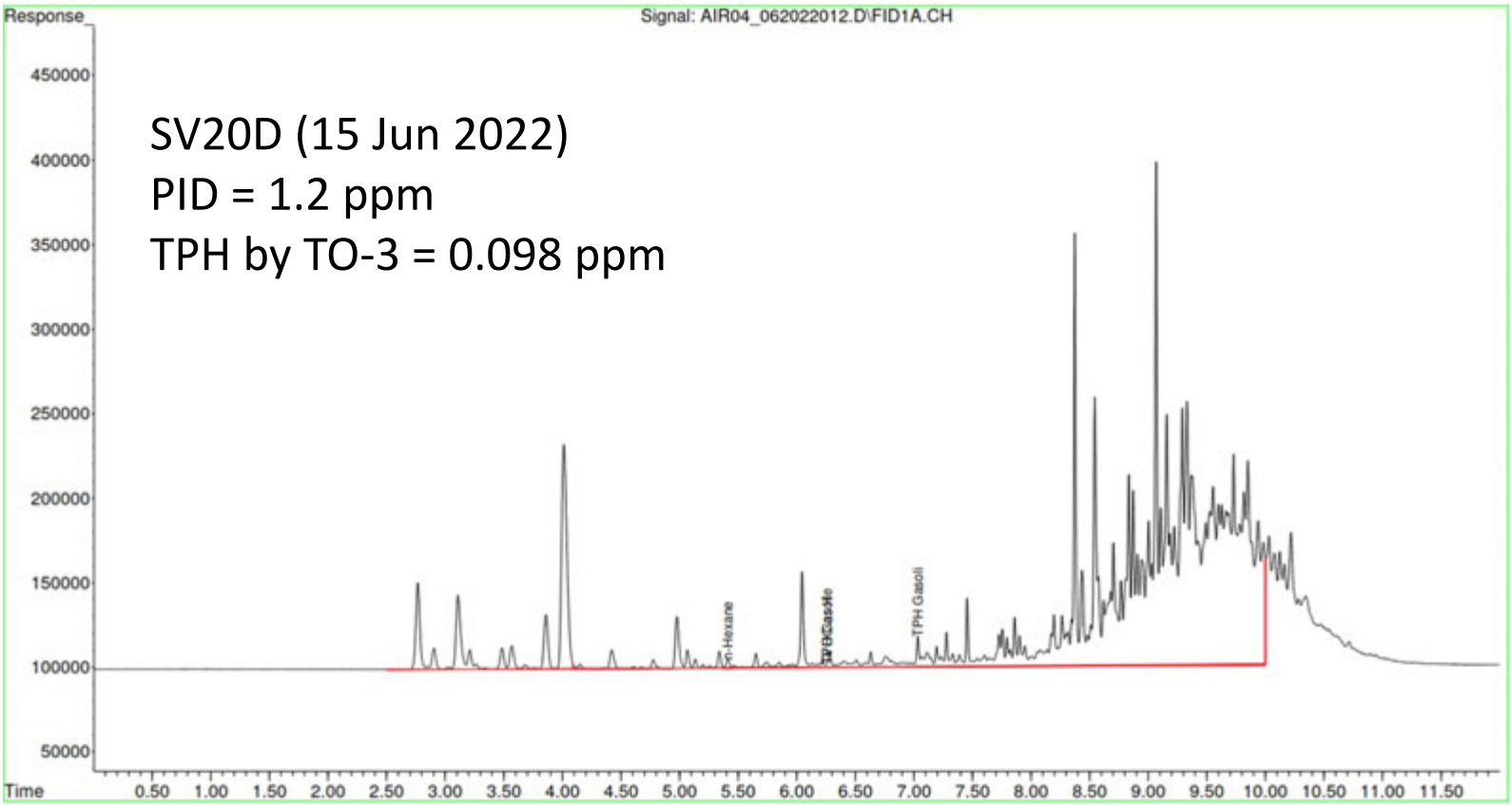

Signal: AIR04_062022007.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
SV17S (15 Jun 2022)
PID = 2.4 ppm
TPH by TO-3 = 0.48 ppm


Signal: AIR04_062022008.D\FID1A.CH
Response
Time
SV17D (15 Jun 2022)
PID = 2.5 ppm
TPH by TO-3 = 0.24 ppm
n-Hexane
TPH Gasoli


Signal: AIR04_062022009.D\FID1A.CH
Response
Time
SV18S (15 Jun 2022)
PID = 7.0 ppm
TPH by TO-3 = 1.0 ppm
n-Hexane
TPH Gasoli

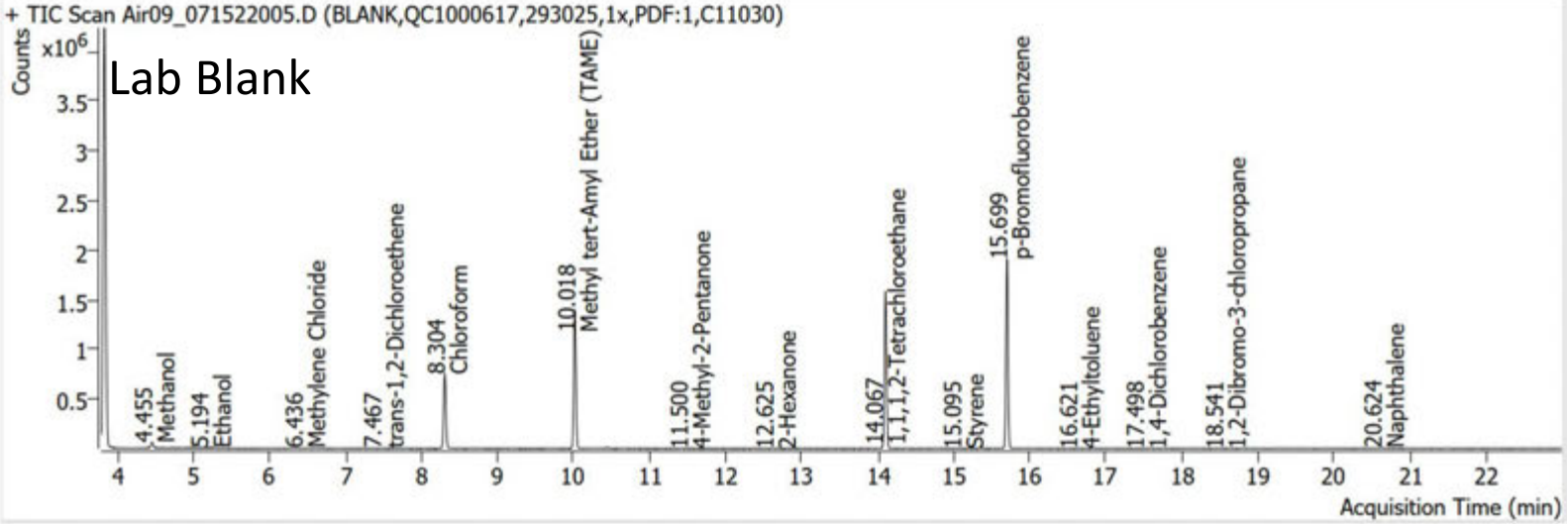

Signal: AIR04_062022010.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoline
TPH Gasoil
SV18D (15 Jun 2022)
PID = 9.0 ppm
TPH by TO-3 = 1.0 ppm

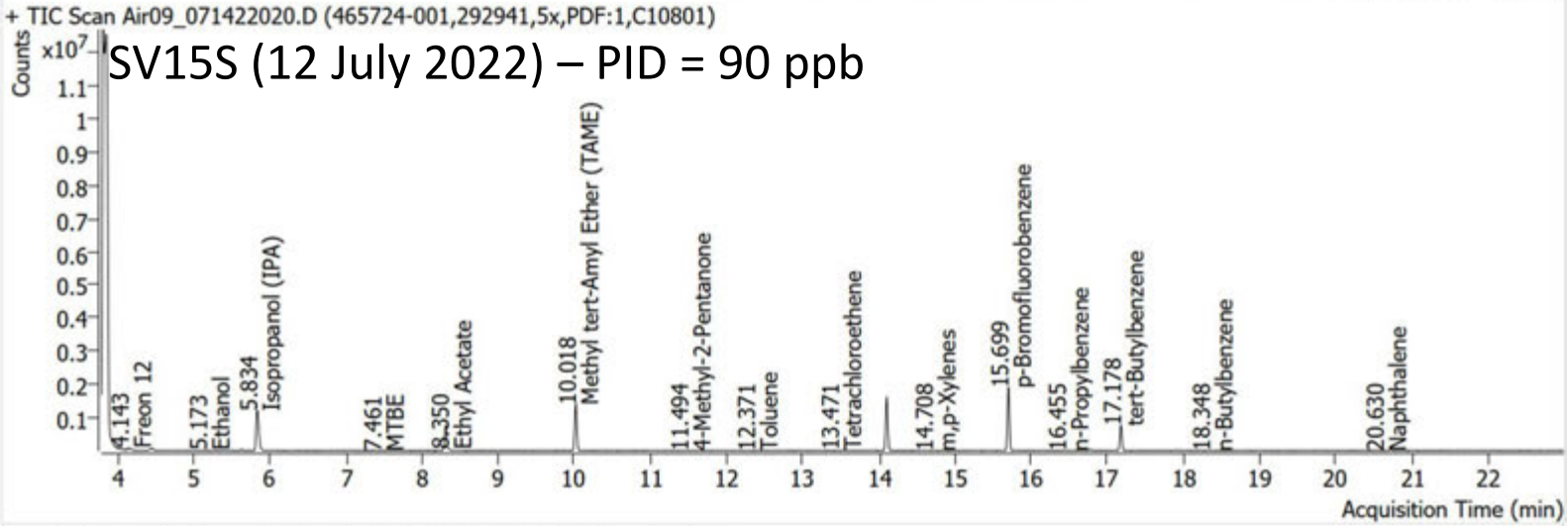

Signal: AIR04_062022011.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoline
TPH Gasoil
SV20M (15 Jun 2022)
PID = 0.98 ppm
TPH by TO-3 = 0.16 ppm

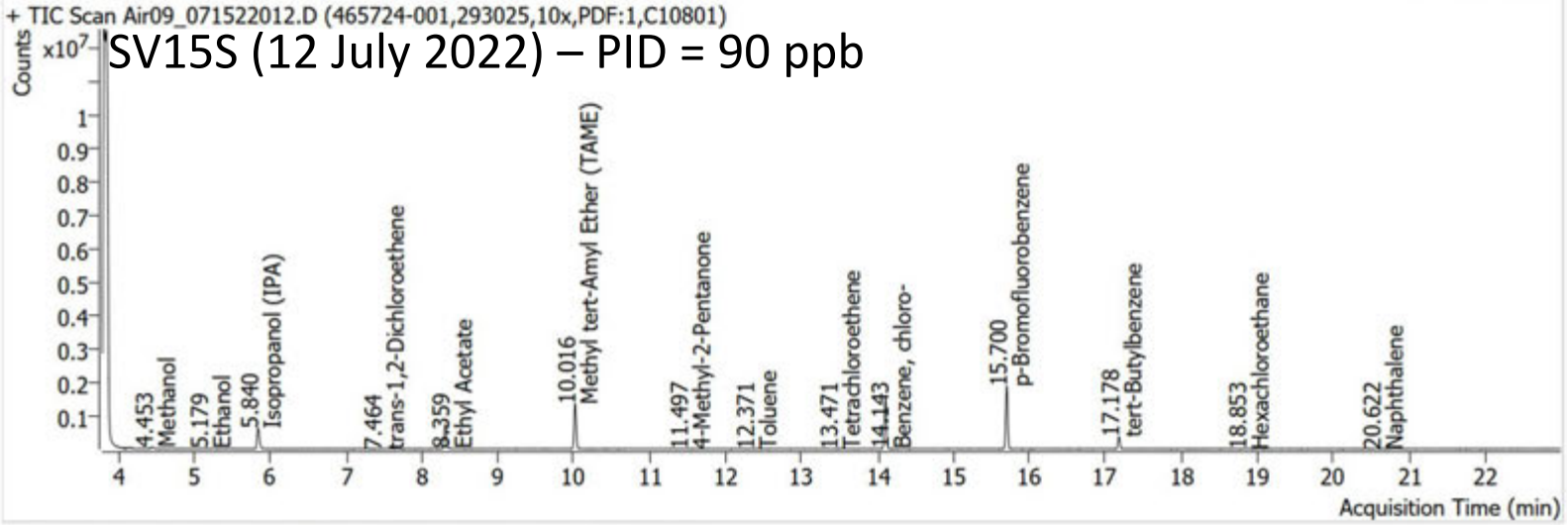

Response
Signal: AIR04_062022012.D\FID1A.CH
SV20D (15 Jun 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.098 ppm
n-Hexane
TPH Gasoil
Time

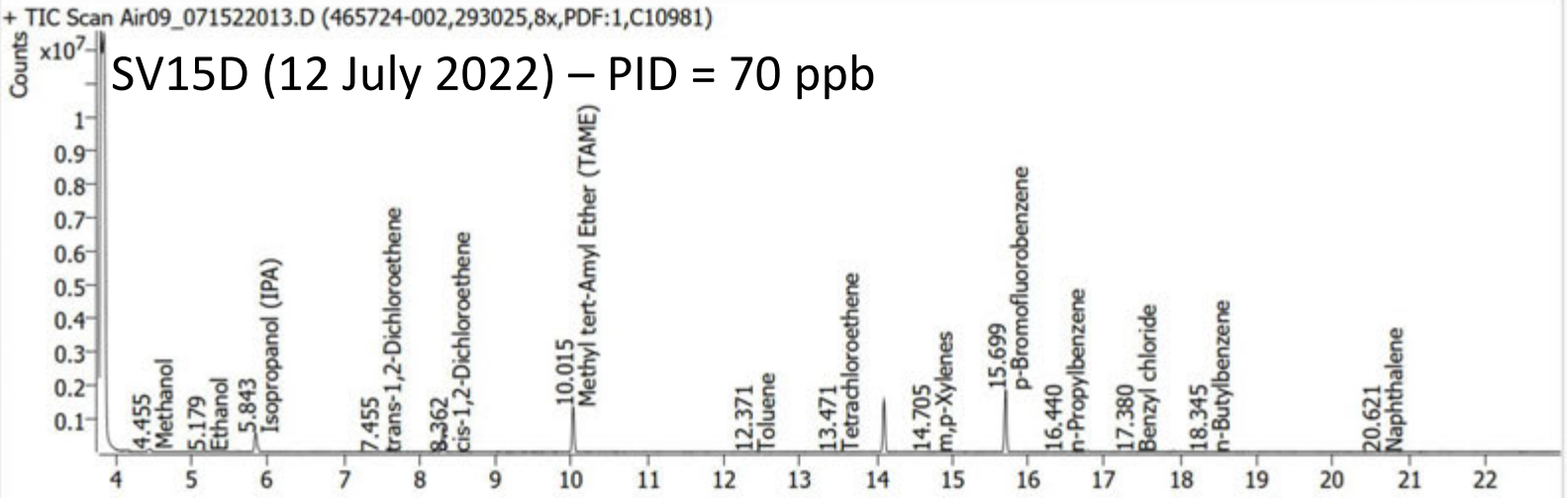
July 2022
Soil Vapor Samples

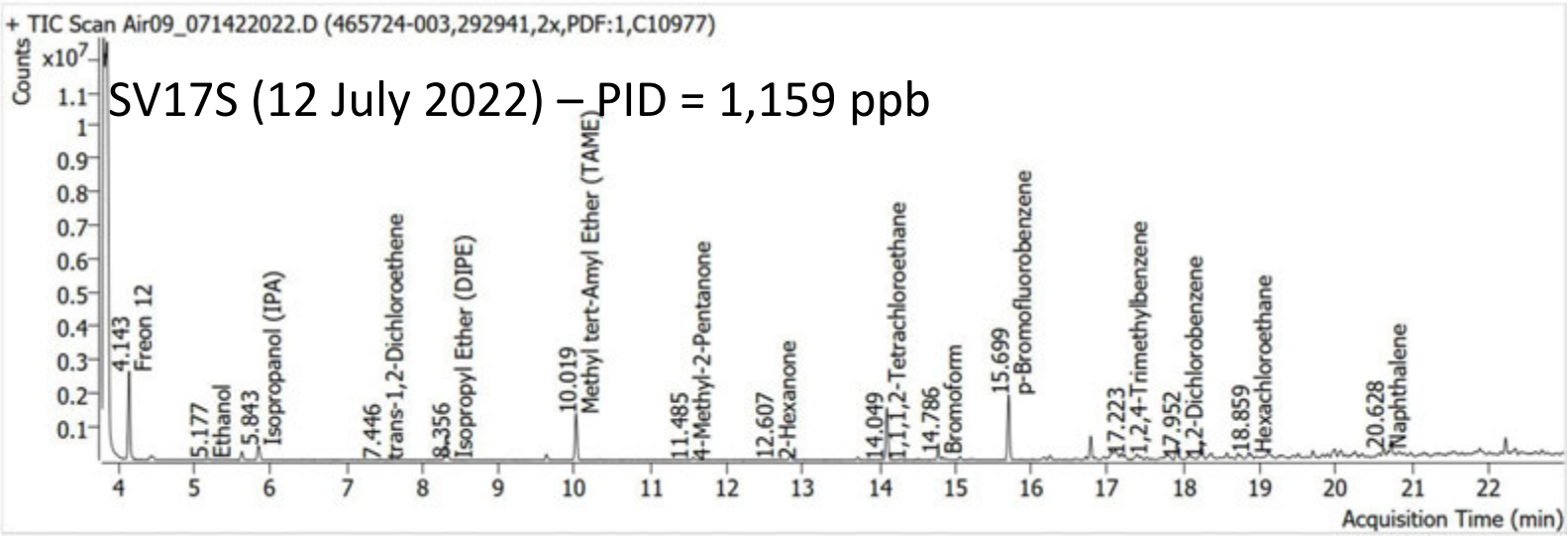
Mass Spec Chromatograms

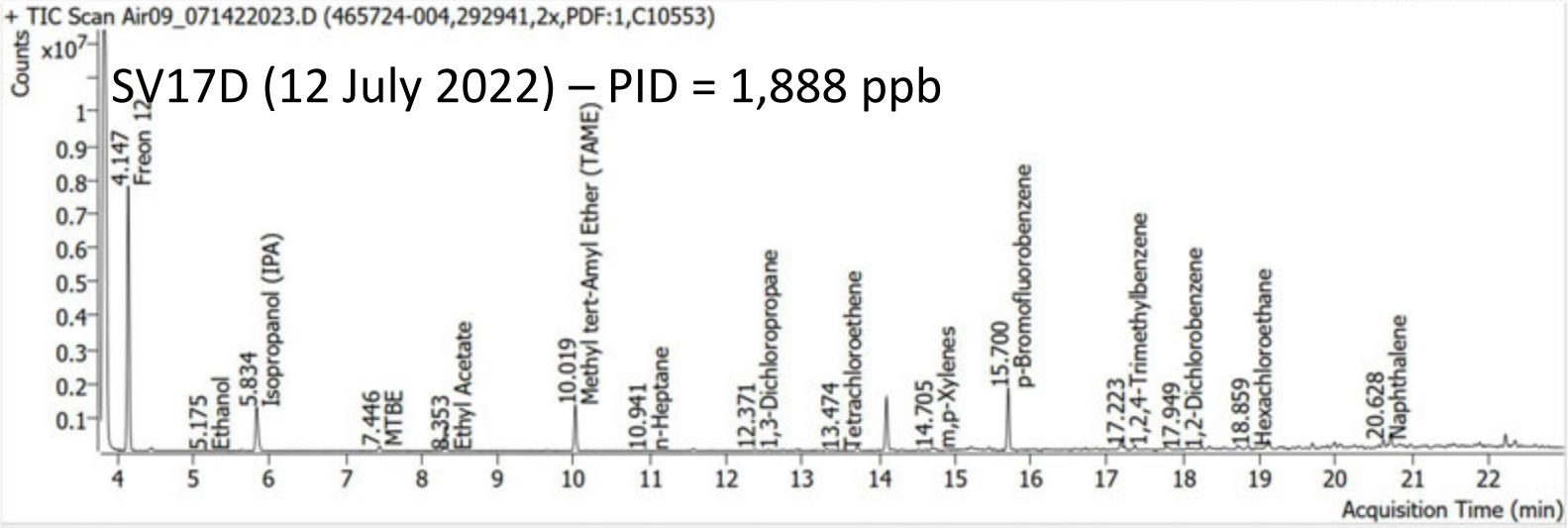

+ TIC Scan Air09_071522005.D (BLANK,QC1000617,293025,1x,PDF:1,C11030)
Lab Blank
Counts
x10^6
4.455 Methanol
5.194 Ethanol
6.436 Methylene Chloride
7.467 trans-1,2-Dichloroethene
8.304 Chloroform
10.018 Methyl tert-Amyl Ether (TAME)
11.500 4-Methyl-2-Pentanone
12.625 2-Hexanone
14.067 1,1,1,2-Tetrachloroethane
15.095 Styrene
15.699 p-Bromofluorobenzene
16.621 4-Ethyltoluene
17.498 1,4-Dichlorobenzene
18.541 1,2-Dibromo-3-chloropropane
20.624 Naphthalene
Acquisition Time (min)

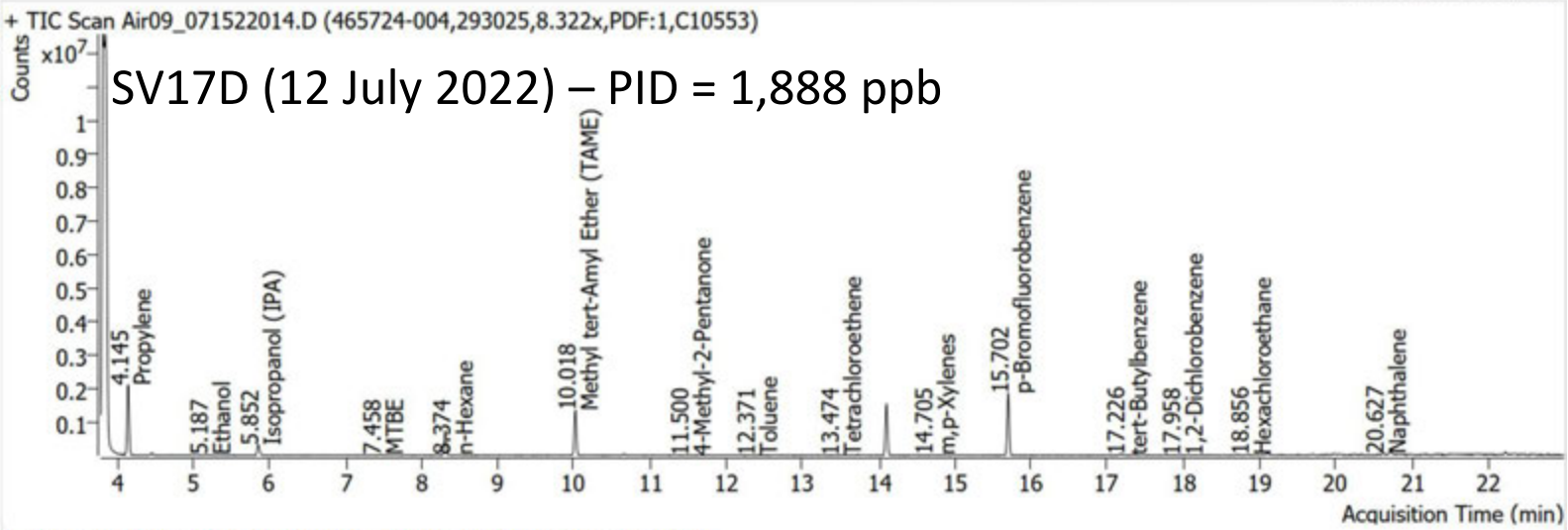

+ TIC Scan Air09_071422020.D (465724-001,292941,5x,PDF:1,C10801)
SV15S (12 July 2022) – PID = 90 ppb
Counts
x10^7
4.143 Freon 12
5.173 Ethanol
5.834 Isopropanol (IPA)
7.461 MTBE
8.350 Ethyl Acetate
10.018 Methyl tert-Amyl Ether (TAME)
11.494 4-Methyl-2-Pentanone
12.371 Toluene
13.471 Tetrachloroethene
14.708 m,p-Xylenes
15.699 p-Bromofluorobenzene
16.455 n-Propylbenzene
17.178 tert-Butylbenzene
18.348 n-Butylbenzene
20.630 Naphthalene
Acquisition Time (min)

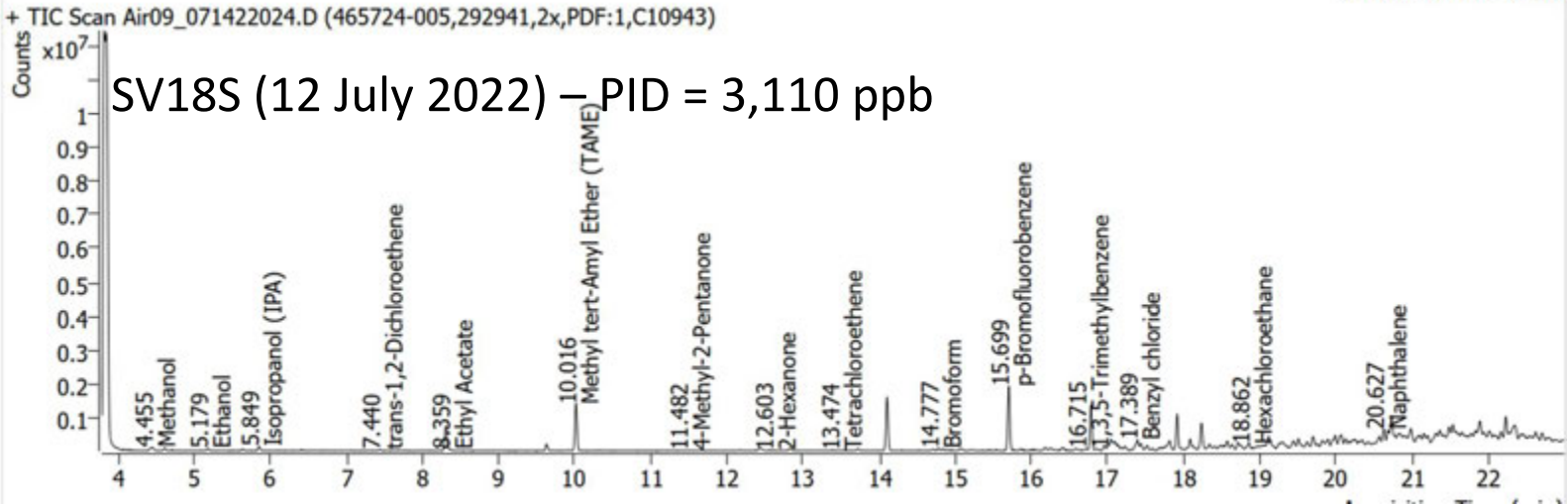

+ TIC Scan Air09_071522012.D (465724-001,293025,10x,PDF:1,C10801)
SV15S (12 July 2022) – PID = 90 ppb
Counts
x10^7
4.453 Methanol
5.179 Ethanol
5.840 Isopropanol (IPA)
7.464 trans-1,2-Dichloroethene
8.359 Ethyl Acetate
10.016 Methyl tert-Amyl Ether (TAME)
11.497 4-Methyl-2-Pentanone
12.371 Toluene
13.471 Tetrachloroethene
14.143 Benzene, chloro-
15.700 p-Bromofluorobenzene
17.178 tert-Butylbenzene
18.853 Hexachloroethane
20.622 Naphthalene
Acquisition Time (min)

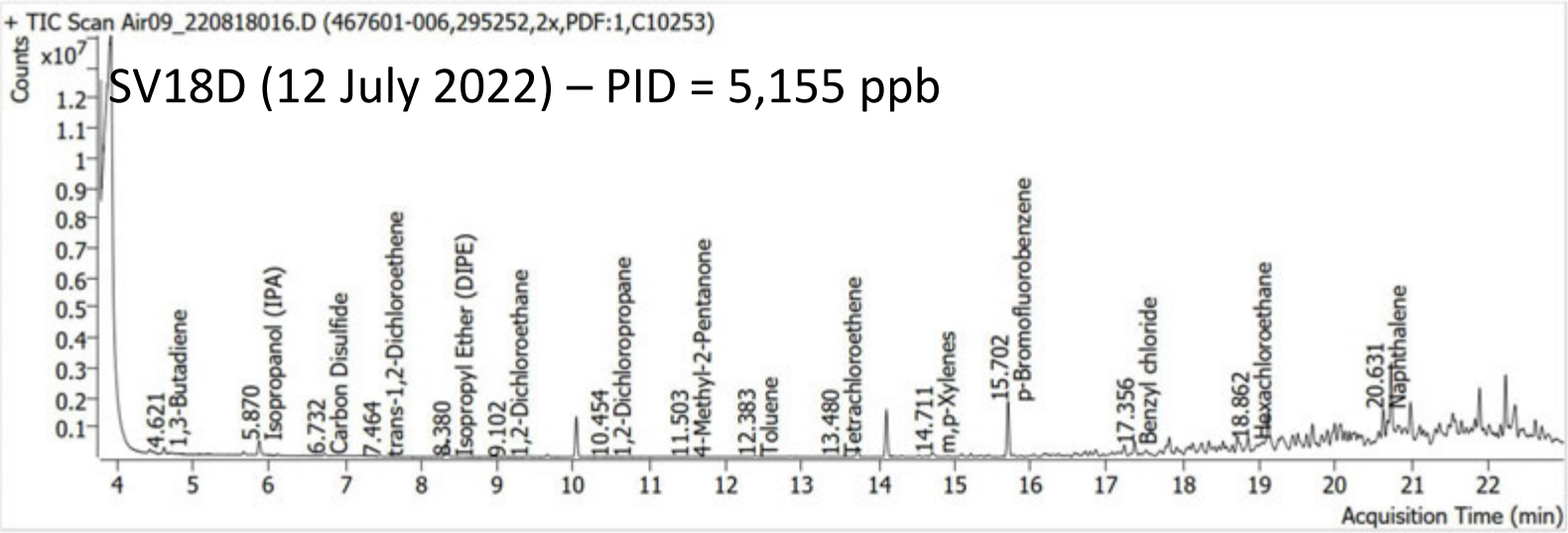

+ TIC Scan Air09_071522013.D (465724-002,293025,8x,PDF:1,C10981)
SV15D (12 July 2022) – PID = 70 ppb
Counts
x10^7
4.455 Methanol
5.179 Ethanol
5.843 Isopropanol (IPA)
7.455 trans-1,2-Dichloroethene
8.362 cis-1,2-Dichloroethene
10.015 Methyl tert-Amyl Ether (TAME)
12.371 Toluene
13.471 Tetrachloroethene
14.705 m,p-Xylenes
15.699 p-Bromofluorobenzene
16.440 n-Propylbenzene
17.380 Benzyl chloride
18.345 n-Butylbenzene
20.621 Naphthalene

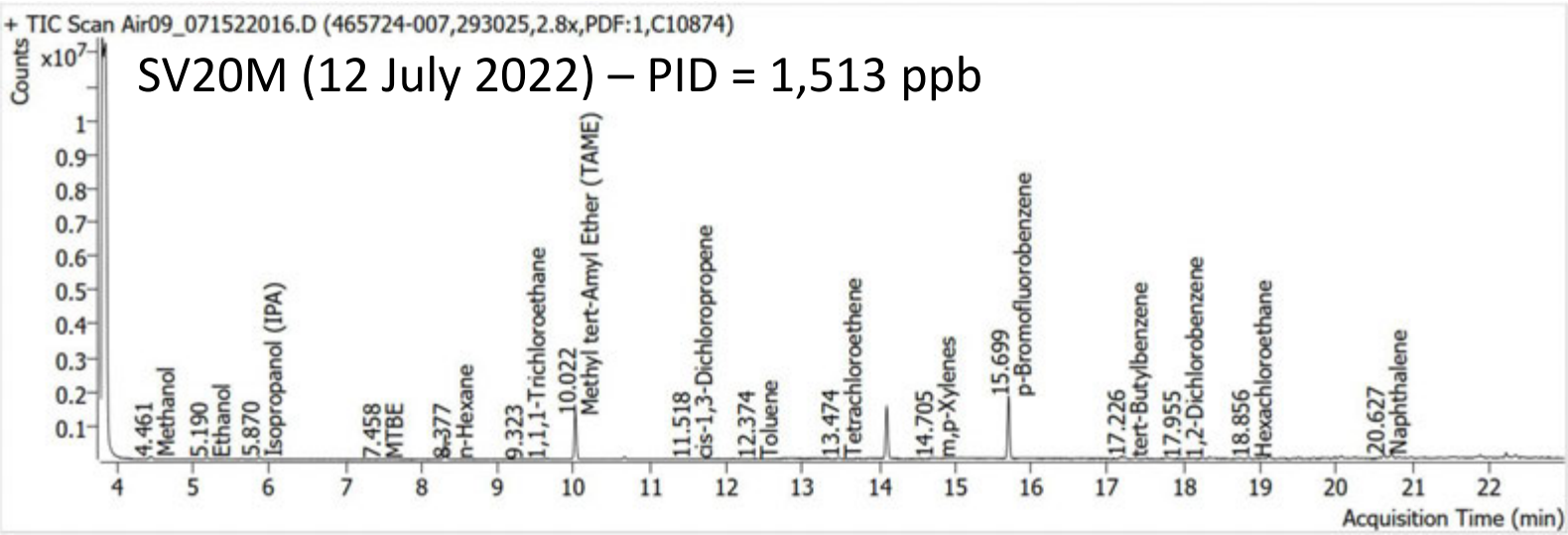

+ TIC Scan Air09_071422022.D (465724-003,292941,2x,PDF:1,C10977)
SV17S (12 July 2022) – PID = 1,159 ppb
Counts
x10^7
4.143 Freon 12
5.177 Ethanol
5.843 Isopropanol (IPA)
7.446 trans-1,2-Dichloroethene
8.356 Isopropyl Ether (DIPE)
10.019 Methyl tert-Amyl Ether (TAME)
11.485 4-Methyl-2-Pentanone
12.607 2-Hexanone
14.049 1,1,1,2-Tetrachloroethane
14.786 Bromoform
15.699 p-Bromofluorobenzene
17.223 1,2,4-Trimethylbenzene
17.952 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.628 Naphthalene
Acquisition Time (min)

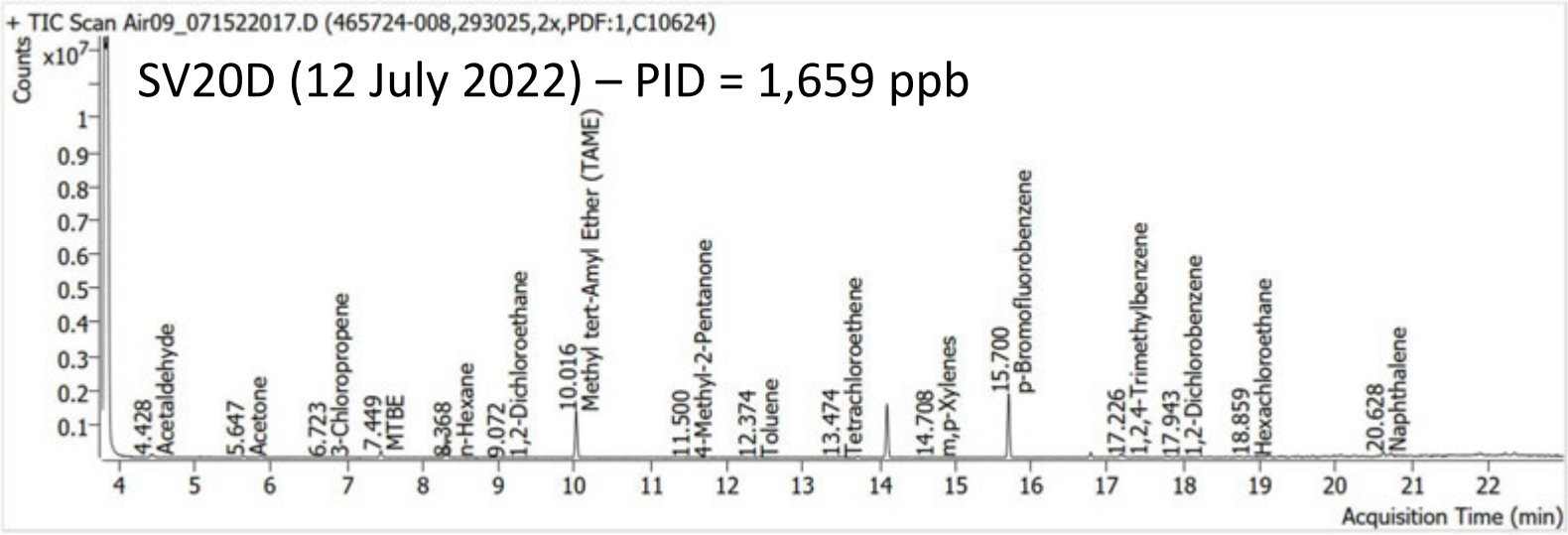

+ TIC Scan Air09_071422023.D (465724-004,292941,2x,PDF:1,C10553)
SV17D (12 July 2022) – PID = 1,888 ppb
Counts
x10^7
4.147 Freon 12
5.175 Ethanol
5.834 Isopropanol (IPA)
7.446 MTBE
8.353 Ethyl Acetate
10.019 Methyl tert-Amyl Ether (TAME)
10.941 n-Heptane
12.371 1,3-Dichloropropane
13.474 Tetrachloroethene
14.705 m,p-Xylenes
15.700 p-Bromofluorobenzene
17.223 1,2,4-Trimethylbenzene
17.949 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.628 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_071522014.D (465724-004,293025,8.322x,PDF:1,C10553)
SV17D (12 July 2022) – PID = 1,888 ppb
Counts
x10^7
4.145 Propylene
5.187 Ethanol
5.852 Isopropanol (IPA)
7.458 MTBE
8.374 n-Hexane
10.018 Methyl tert-Amyl Ether (TAME)
11.500 4-Methyl-2-Pentanone
12.371 Toluene
13.474 Tetrachloroethene
14.705 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.226 tert-Butylbenzene
17.958 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.627 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_071422024.D (465724-005,292941,2x,PDF:1,C10943)
SV18S (12 July 2022) – PID = 3,110 ppb
Counts
x10^7
4.455 Methanol
5.179 Ethanol
5.849 Isopropanol (IPA)
7.440 trans-1,2-Dichloroethene
8.359 Ethyl Acetate
10.016 Methyl tert-Amyl Ether (TAME)
11.482 4-Methyl-2-Pentanone
12.603 2-Hexanone
13.474 Tetrachloroethene
14.777 Bromoform
15.699 p-Bromofluorobenzene
16.715 1,3,5-Trimethylbenzene
17.389 Benzyl chloride
18.862 Hexachloroethane
20.627 Naphthalene

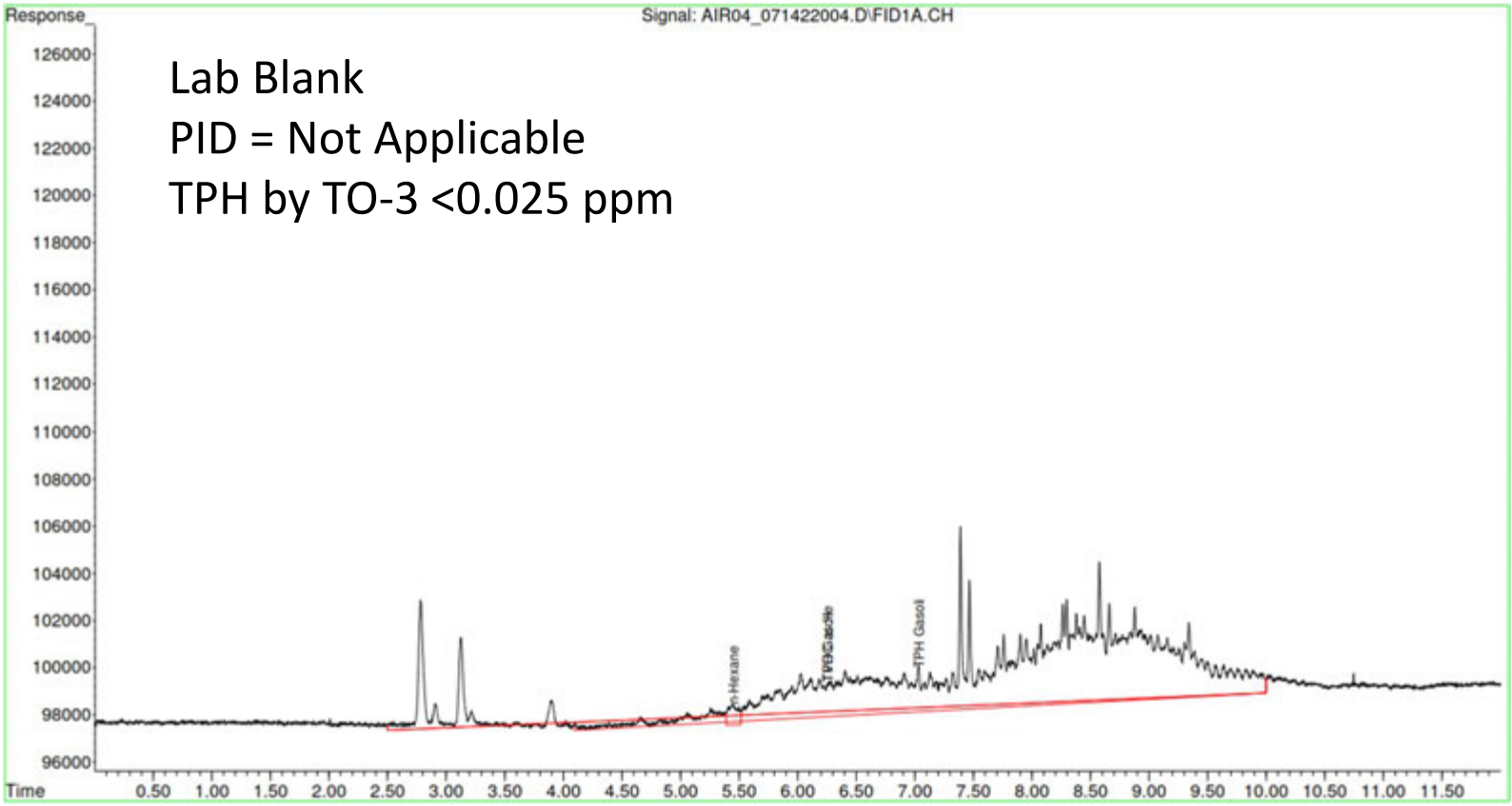

+ TIC Scan Air09_220818016.D (467601-006,295252,2x,PDF:1,C10253)
SV18D (12 July 2022) – PID = 5,155 ppb
Counts
x10^7
4.621 1,3-Butadiene
5.870 Isopropanol (IPA)
6.732 Carbon Disulfide
7.464 trans-1,2-Dichloroethene
8.380 Isopropyl Ether (DIPE)
9.102 1,2-Dichloroethane
10.454 1,2-Dichloropropane
11.503 4-Methyl-2-Pentanone
12.383 Toluene
13.480 Tetrachloroethene
14.711 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.356 Benzyl chloride
18.862 Hexachloroethane
20.631 Naphthalene
Acquisition Time (min)

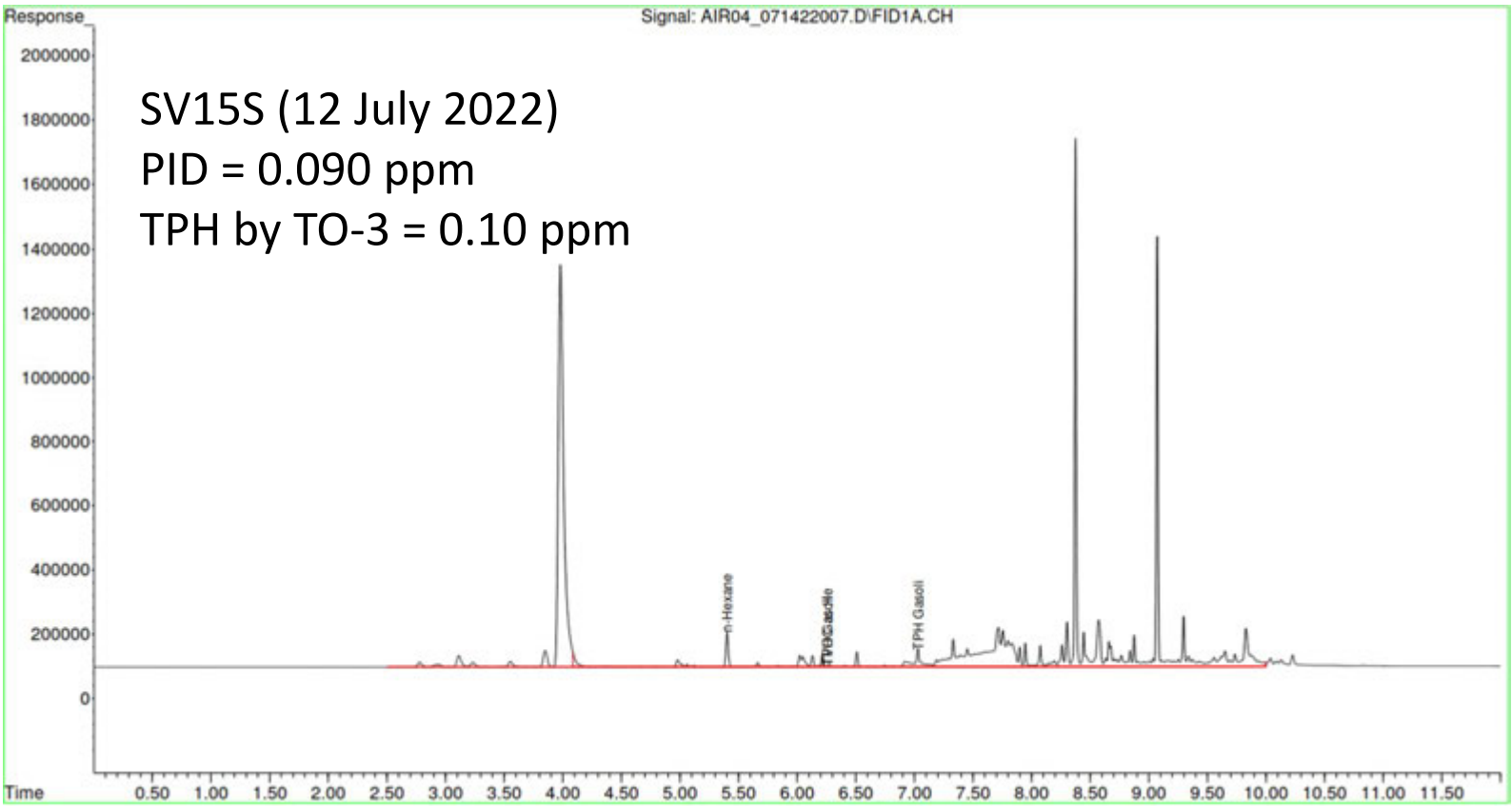

+ TIC Scan Air09_071522016.D (465724-007,293025,2.8x,PDF:1,C10874)
SV20M (12 July 2022) – PID = 1,513 ppb
Counts
x10^7
4.461 Methanol
5.190 Ethanol
5.870 Isopropanol (IPA)
7.458 MTBE
8.377 n-Hexane
9.323 1,1,1-Trichloroethane
10.022 Methyl tert-Amyl Ether (TAME)
11.518 cis-1,3-Dichloropropene
12.374 Toluene
13.474 Tetrachloroethene
14.705 m,p-Xylenes
15.699 p-Bromofluorobenzene
17.226 tert-Butylbenzene
17.955 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.627 Naphthalene
Acquisition Time (min)

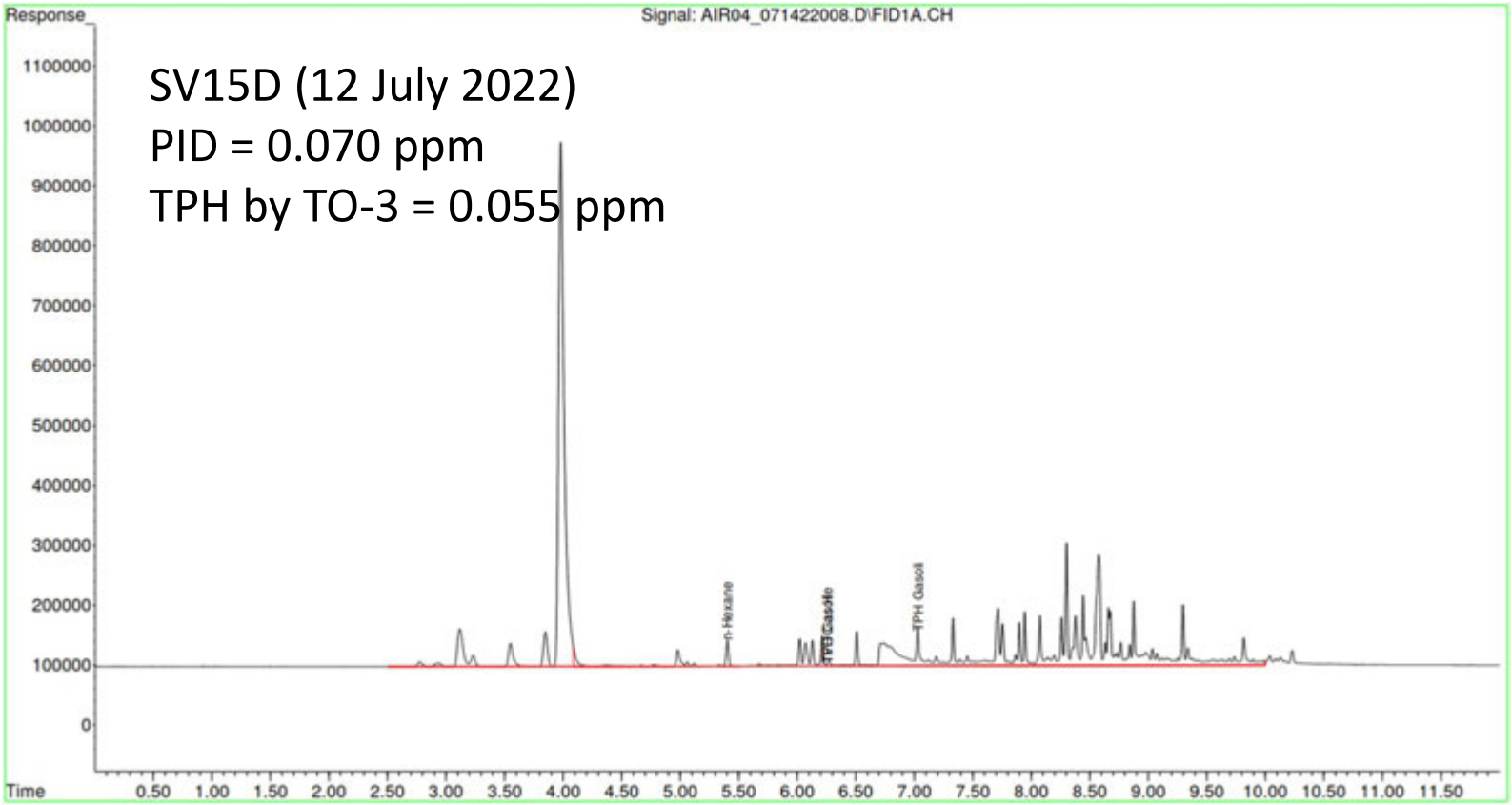

+ TIC Scan Air09_071522017.D (465724-008,293025,2x,PDF:1,C10624)
SV20D (12 July 2022) – PID = 1,659 ppb
Counts
x10^7
4.428 Acetaldehyde
5.647 Acetone
6.723 3-Chloropropene
7.449 MTBE
8.368 n-Hexane
9.072 1,2-Dichloroethane
10.016 Methyl tert-Amyl Ether (TAME)
11.500 4-Methyl-2-Pentanone
12.374 Toluene
13.474 Tetrachloroethene
14.708 m,p-Xylenes
15.700 p-Bromofluorobenzene
17.226 1,2,4-Trimethylbenzene
17.943 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.628 Naphthalene
Acquisition Time (min)

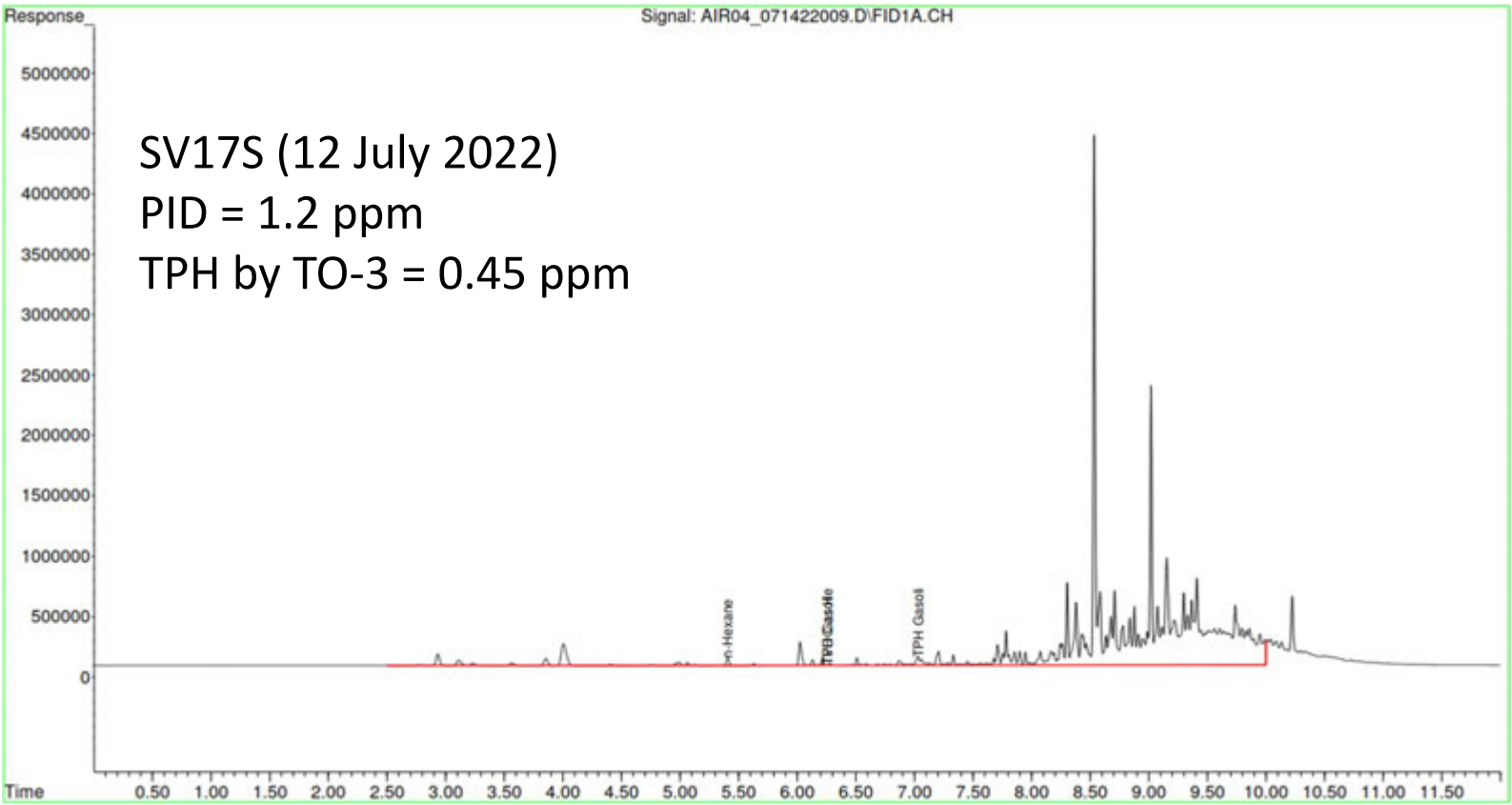
July 2022
Soil Vapor Samples

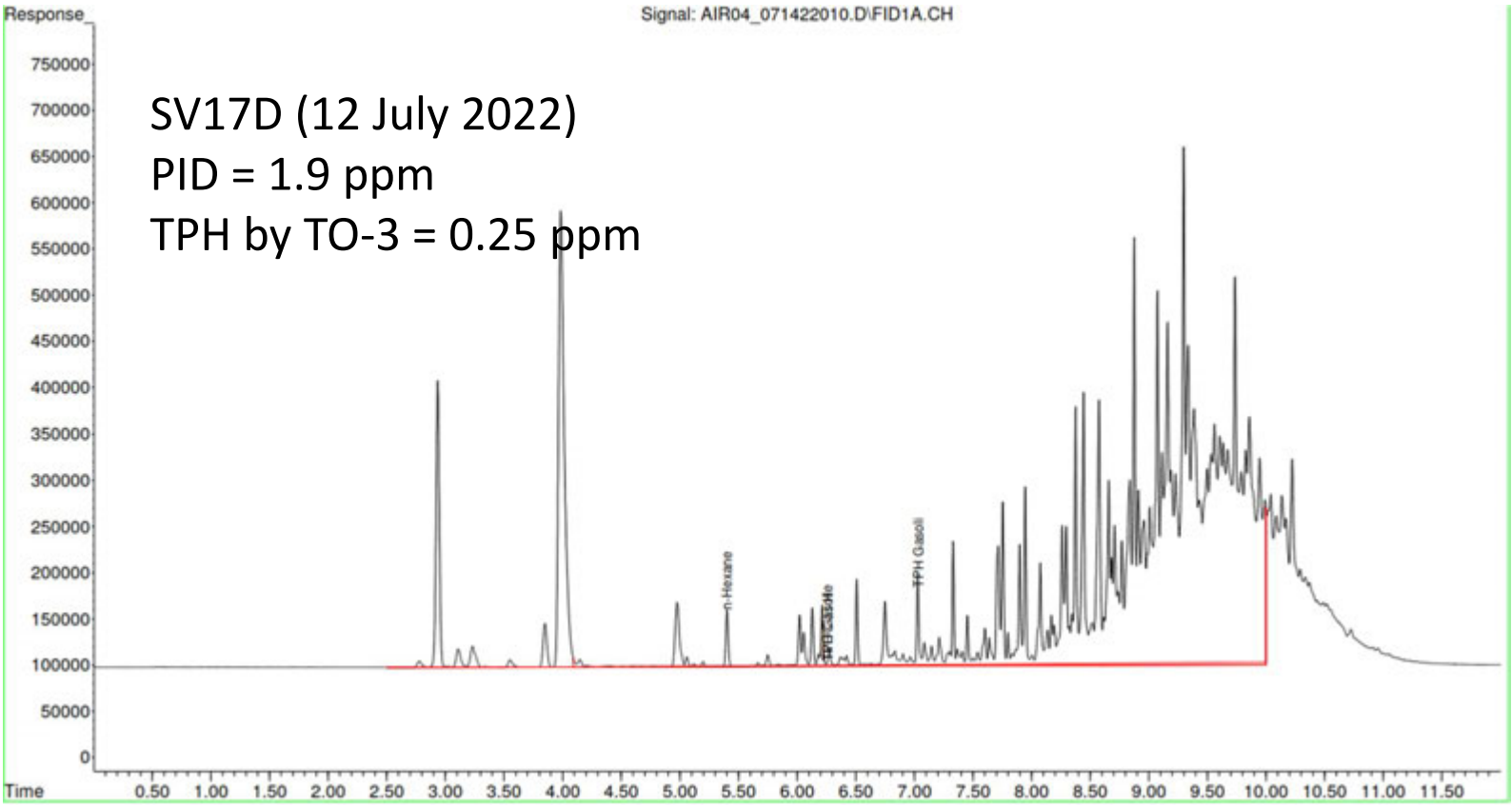
FID Chromatograms

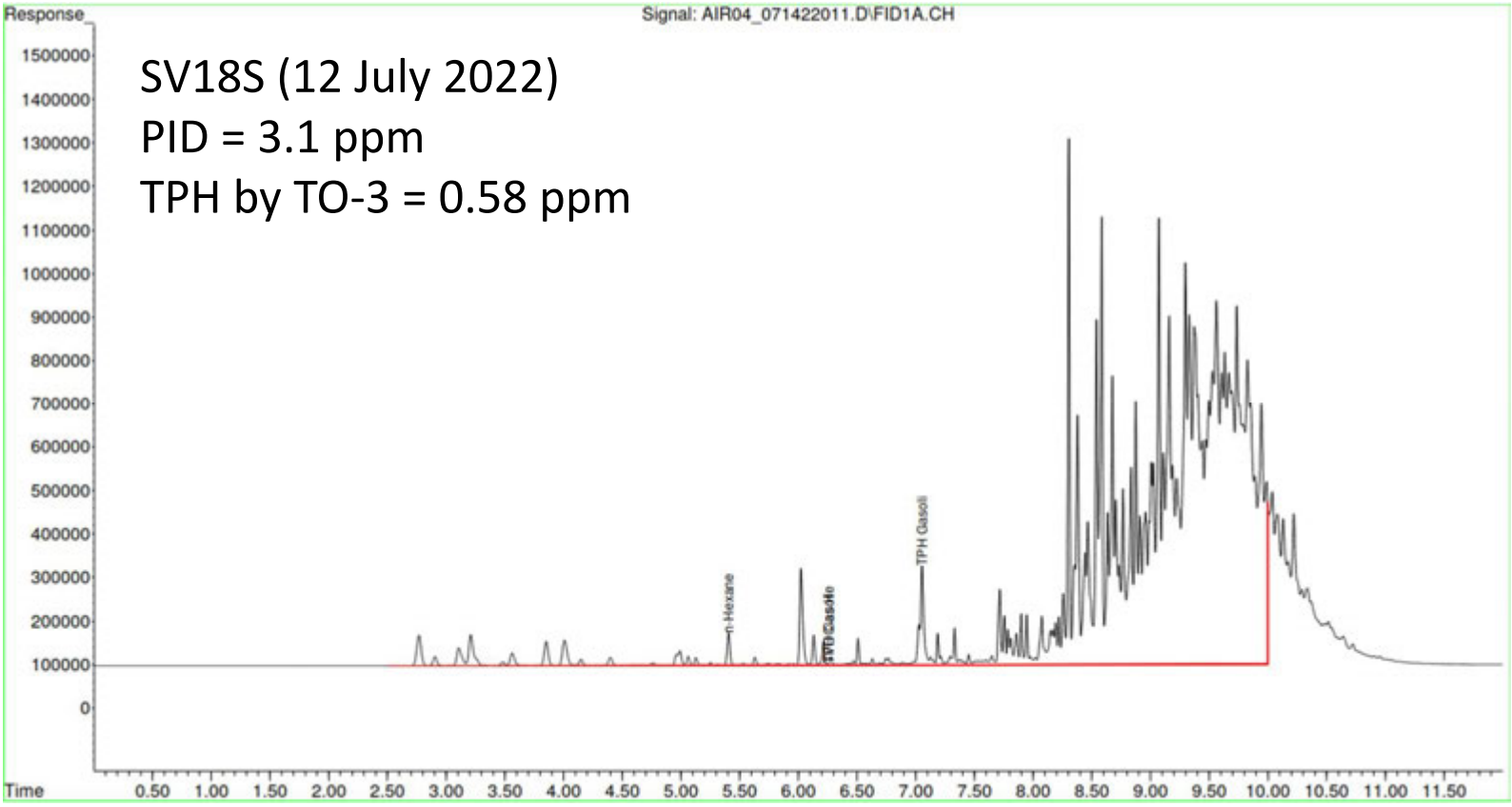

Signal: AIR04_071422004.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoil
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

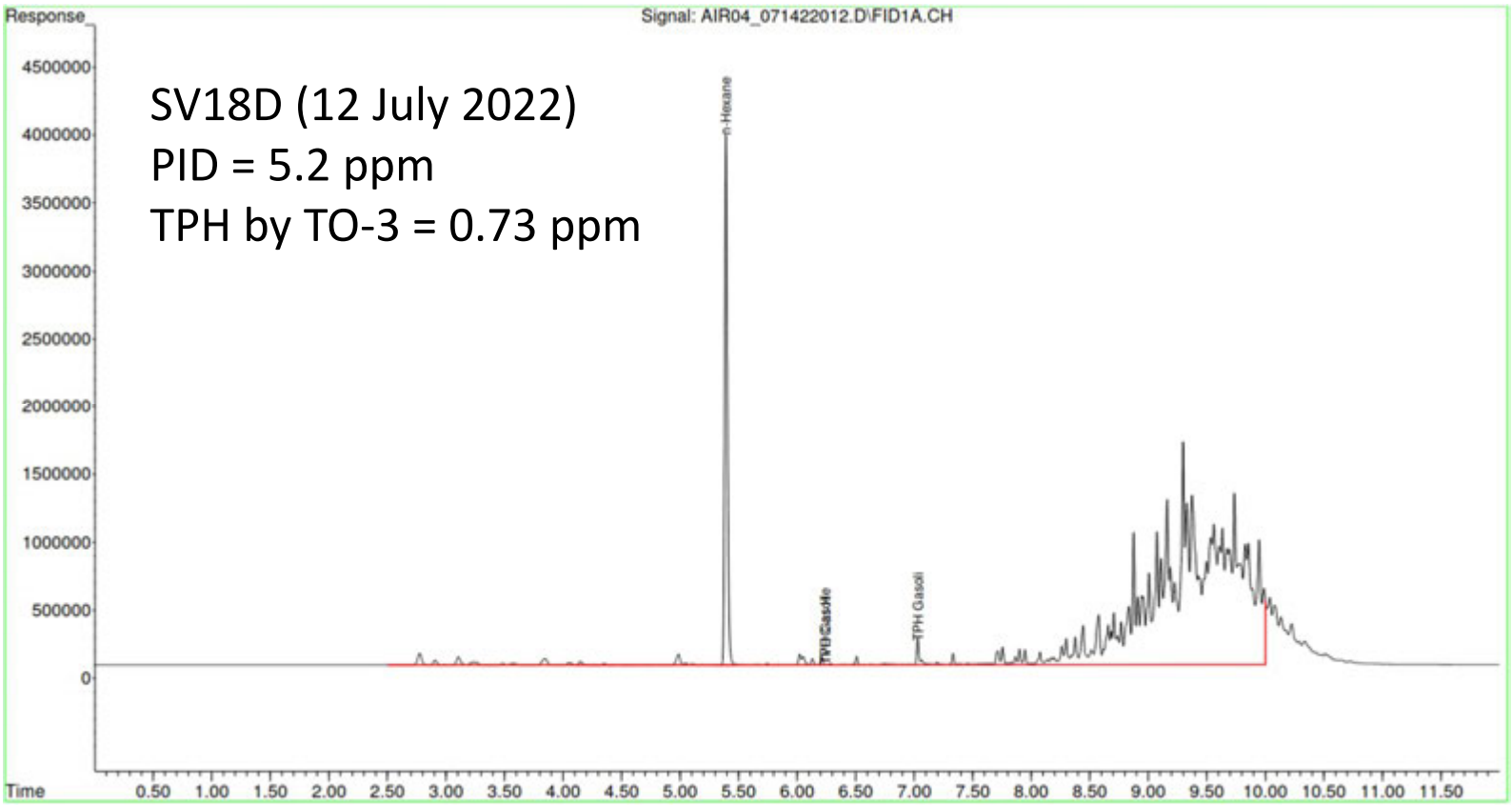

Signal: AIR04_071422007.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoil
SV15S (12 July 2022)
PID = 0.090 ppm
TPH by TO-3 = 0.10 ppm

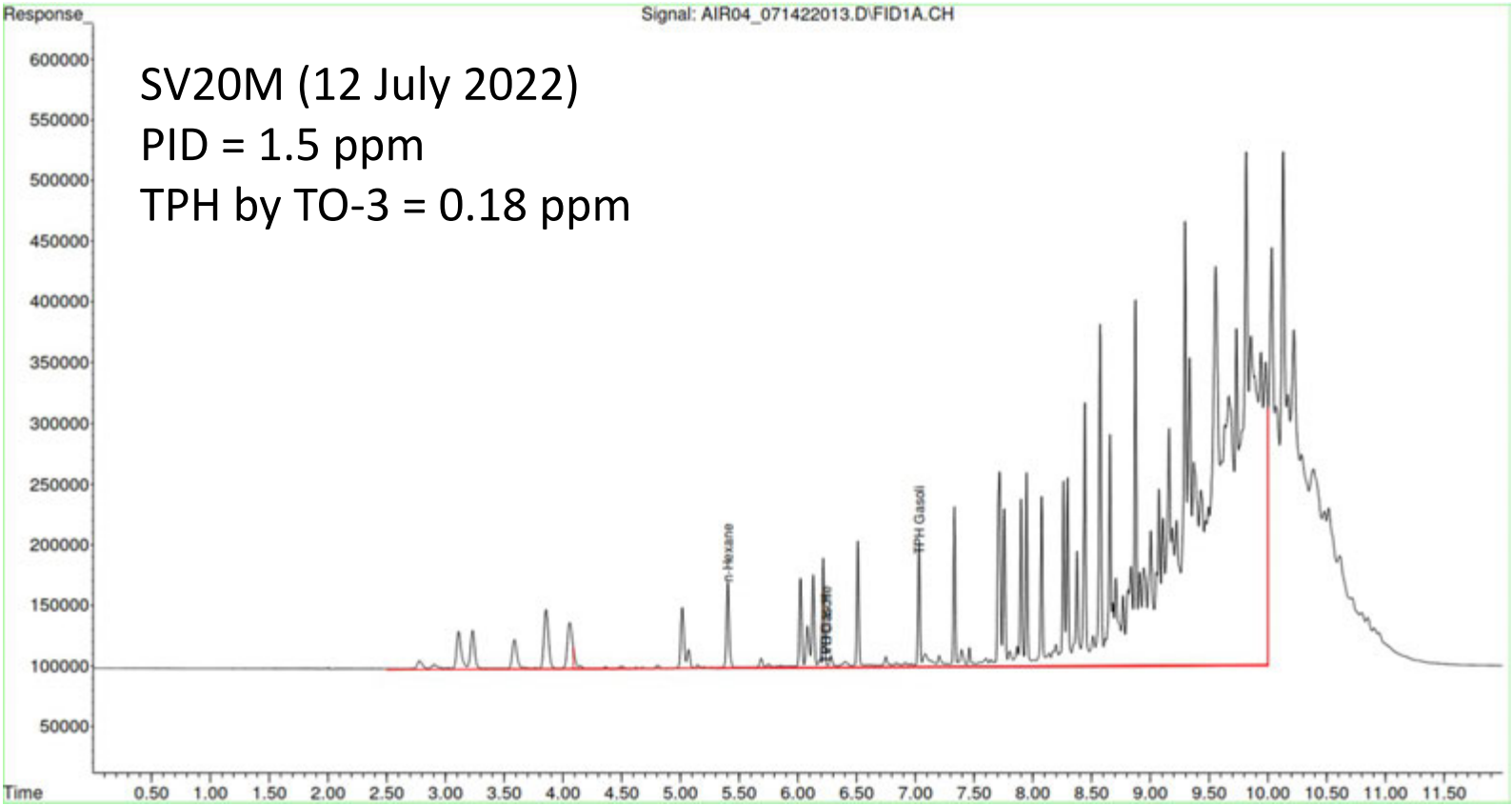

Signal: AIR04_071422008.D\FID1A.CH
Response
SV15D (12 July 2022)
PID = 0.070 ppm
TPH by TO-3 = 0.055 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

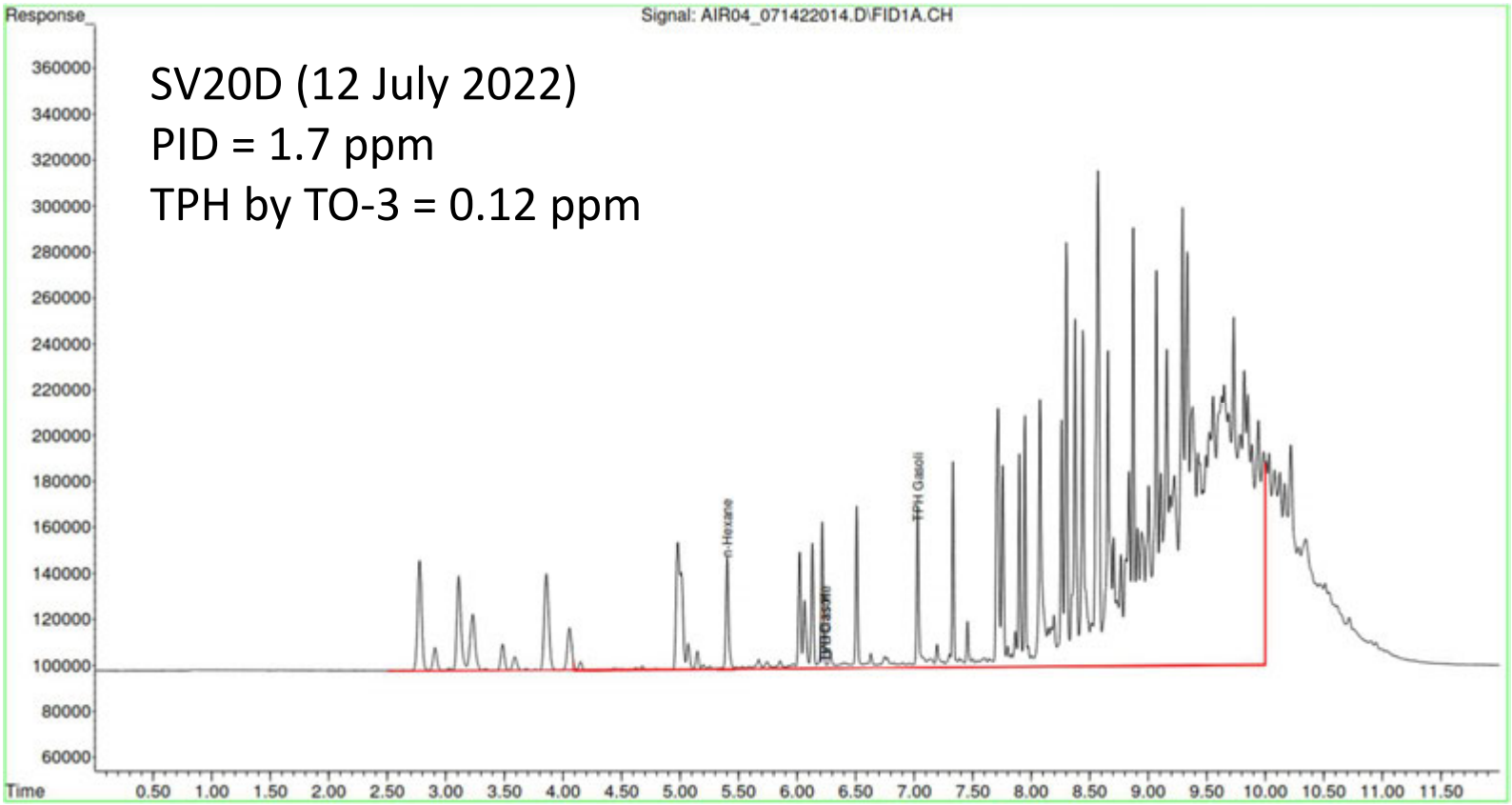

Signal: AIR04_071422009.D\FID1A.CH
Response
SV17S (12 July 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.45 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time


Signal: AIR04_071422010.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoil
SV17D (12 July 2022)
PID = 1.9 ppm
TPH by TO-3 = 0.25 ppm


Signal: AIR04_071422011.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoil
SV18S (12 July 2022)
PID = 3.1 ppm
TPH by TO-3 = 0.58 ppm

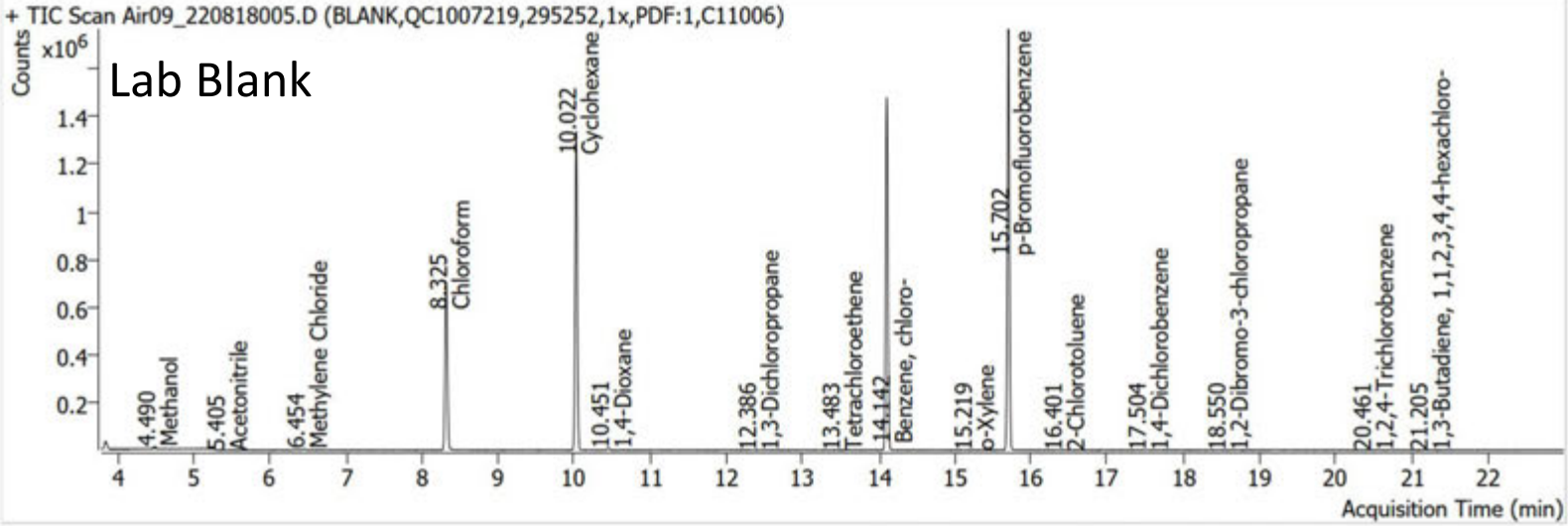

Signal: AIR04_071422012.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
SV18D (12 July 2022)
PID = 5.2 ppm
TPH by TO-3 = 0.73 ppm

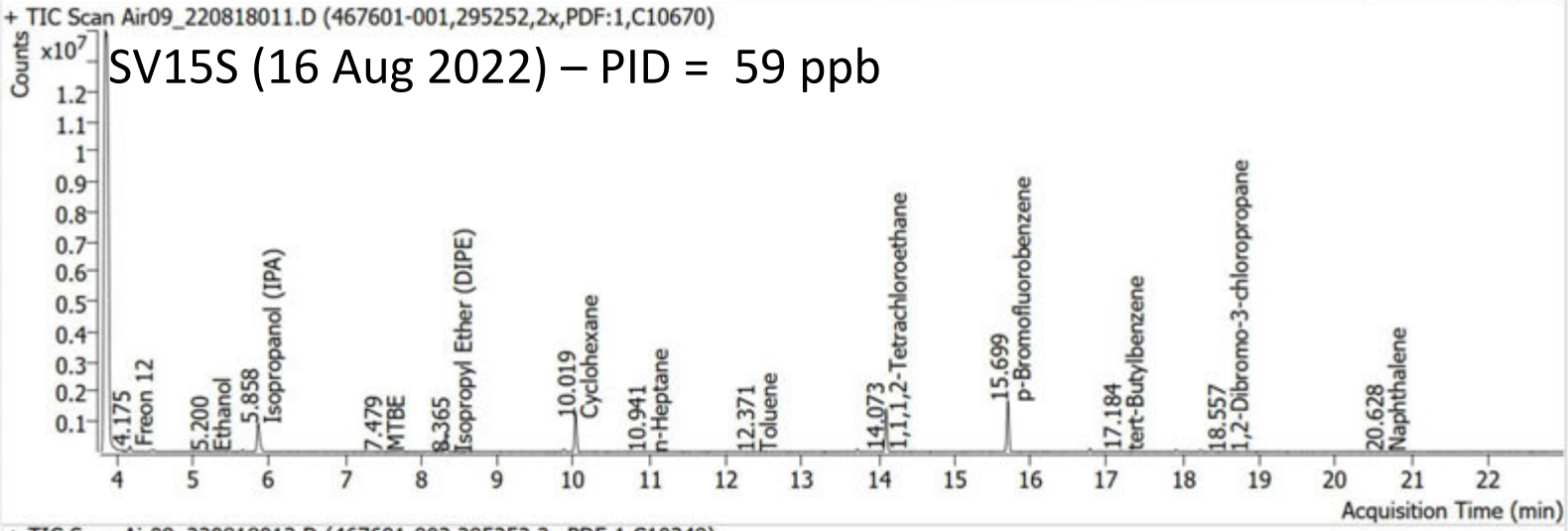

Signal: AIR04_071422013.D\FID1A.CH
Response
Time
n-Hexane
TPH Gasoli
SV20M (12 July 2022)
PID = 1.5 ppm
TPH by TO-3 = 0.18 ppm

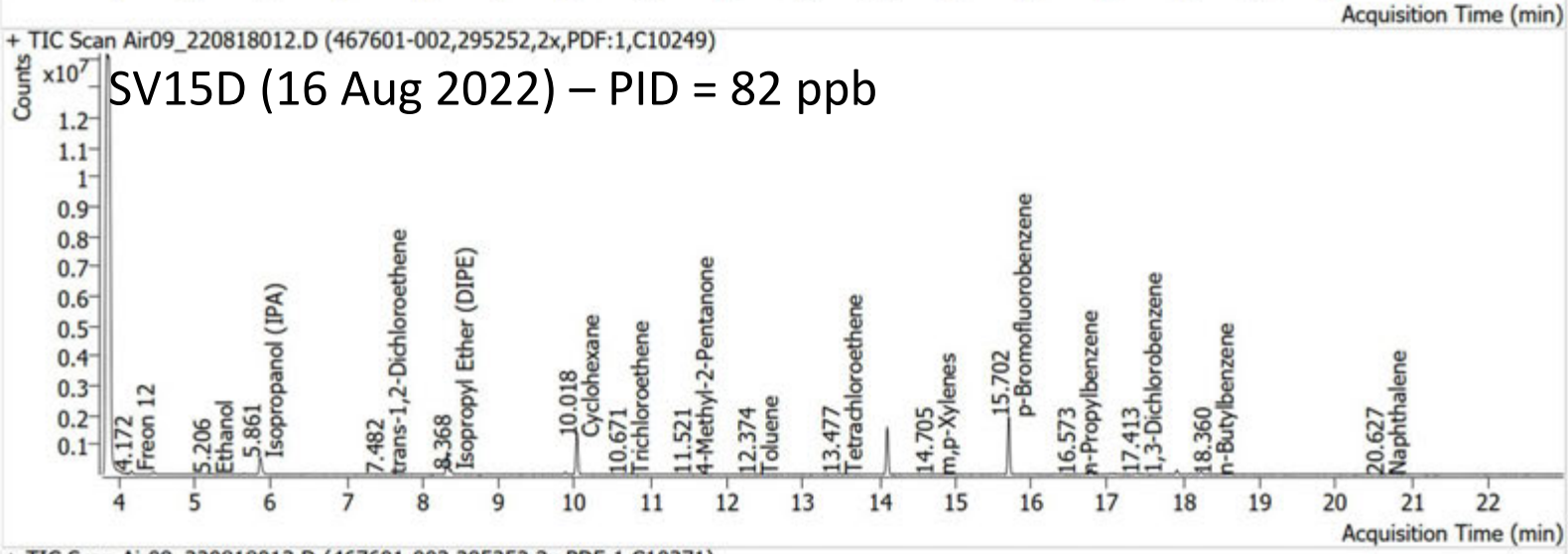

Signal: AIR04_071422014.D\FID1A.CH
Response
SV20D (12 July 2022)
PID = 1.7 ppm
TPH by TO-3 = 0.12 ppm
n-Hexane
TPH Gasoli
Time

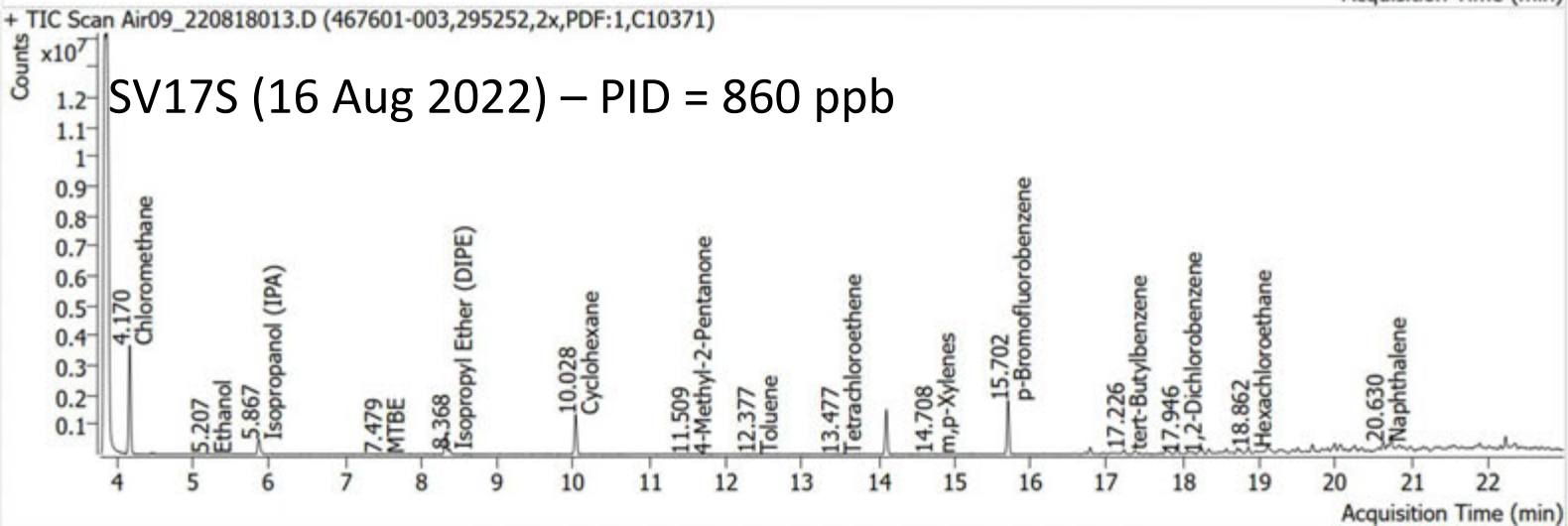
August 2022
Soil Vapor Samples

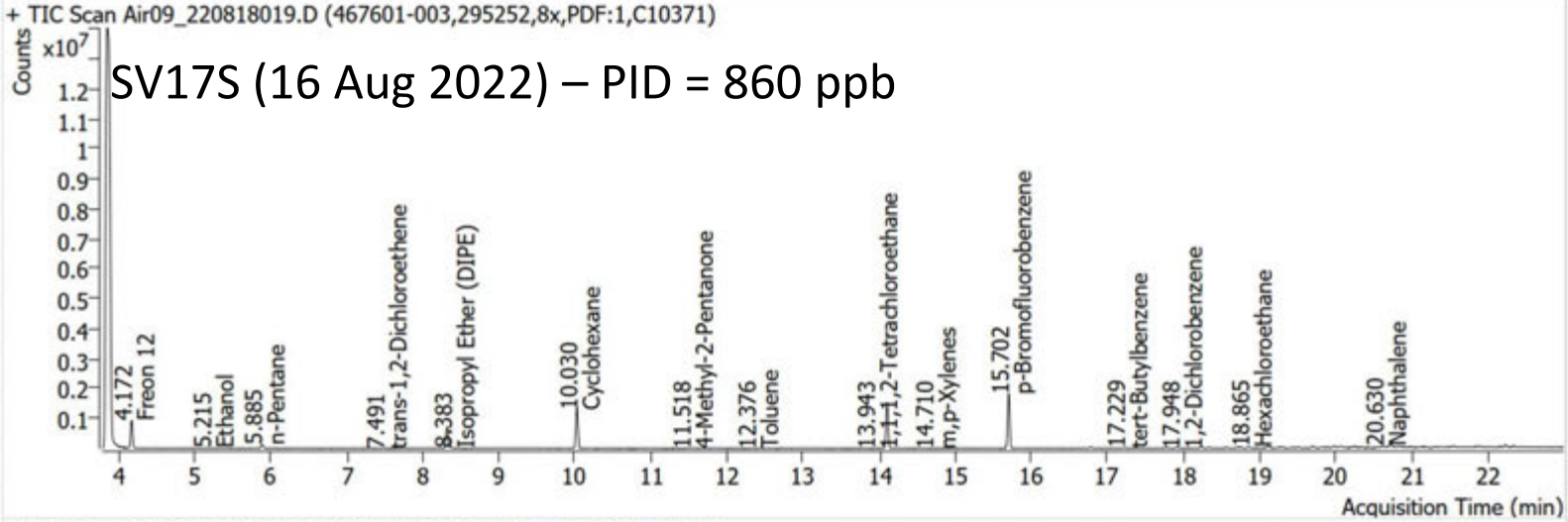
Mass Spec Chromatograms

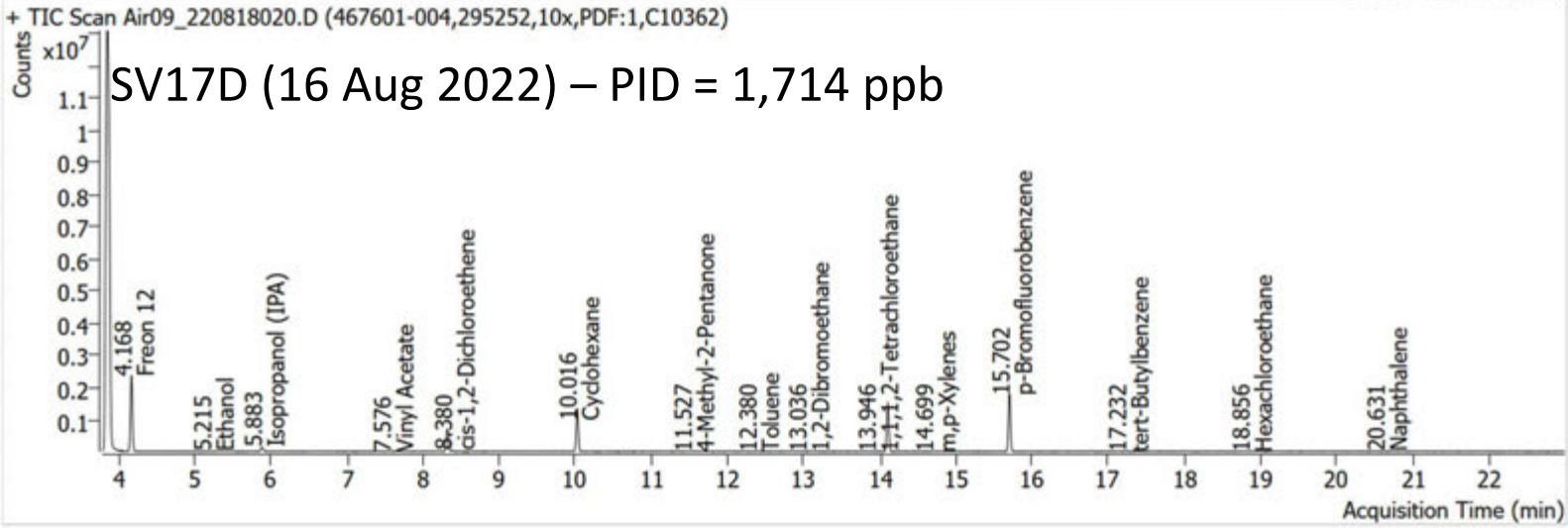

+ TIC Scan Air09_220818005.D (BLANK,QC1007219,295252,1x,PDF:1,C11006)
Lab Blank
Counts
x10^6
4.490 Methanol
5.405 Acetonitrile
6.454 Methylene Chloride
8.325 Chloroform
10.022 Cyclohexane
10.451 1,4-Dioxane
12.386 1,3-Dichloropropane
13.483 Tetrachloroethene
14.142 Benzene, chloro-
15.219 o-Xylene
15.702 p-Bromofluorobenzene
16.401 2-Chlorotoluene
17.504 1,4-Dichlorobenzene
18.550 1,2-Dibromo-3-chloropropane
20.461 1,2,4-Trichlorobenzene
21.205 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

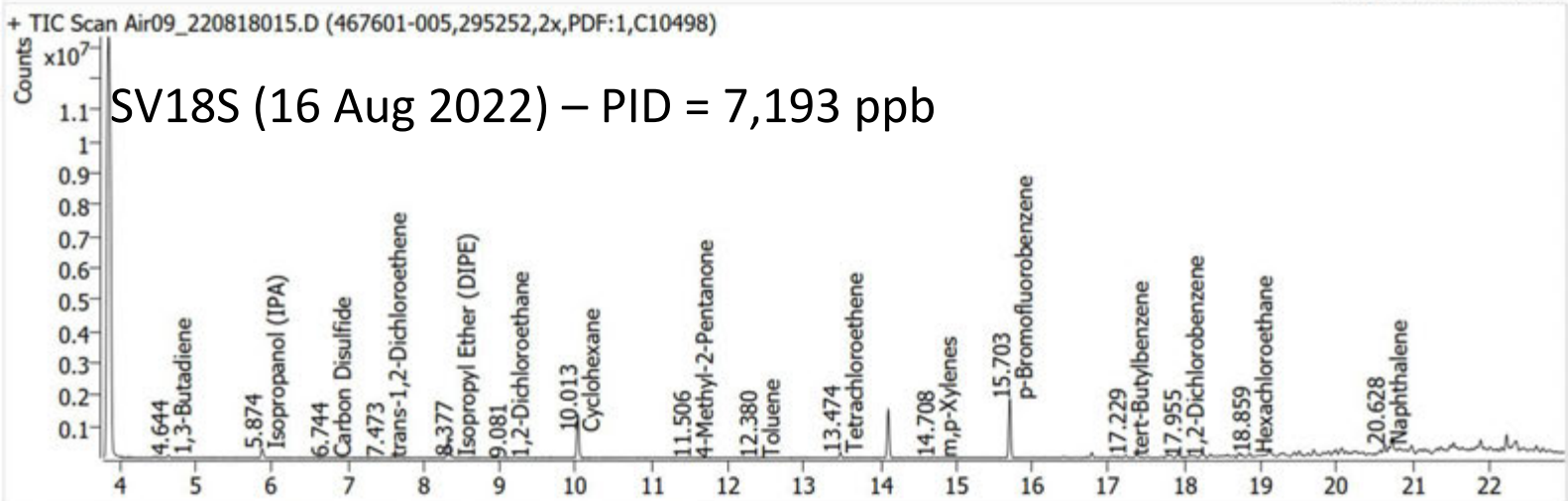

+ TIC Scan Air09_220818011.D (467601-001,295252,2x,PDF:1,C10670)
SV15S (16 Aug 2022) – PID = 59 ppb
Counts
x10^7
4.175 Freon 12
5.200 Ethanol
5.858 Isopropanol (IPA)
7.479 MTBE
8.365 Isopropyl Ether (DIPE)
10.019 Cyclohexane
10.941 n-Heptane
12.371 Toluene
14.073 1,1,1,2-Tetrachloroethane
15.699 p-Bromofluorobenzene
17.184 tert-Butylbenzene
18.557 1,2-Dibromo-3-chloropropane
20.628 Naphthalene
Acquisition Time (min)

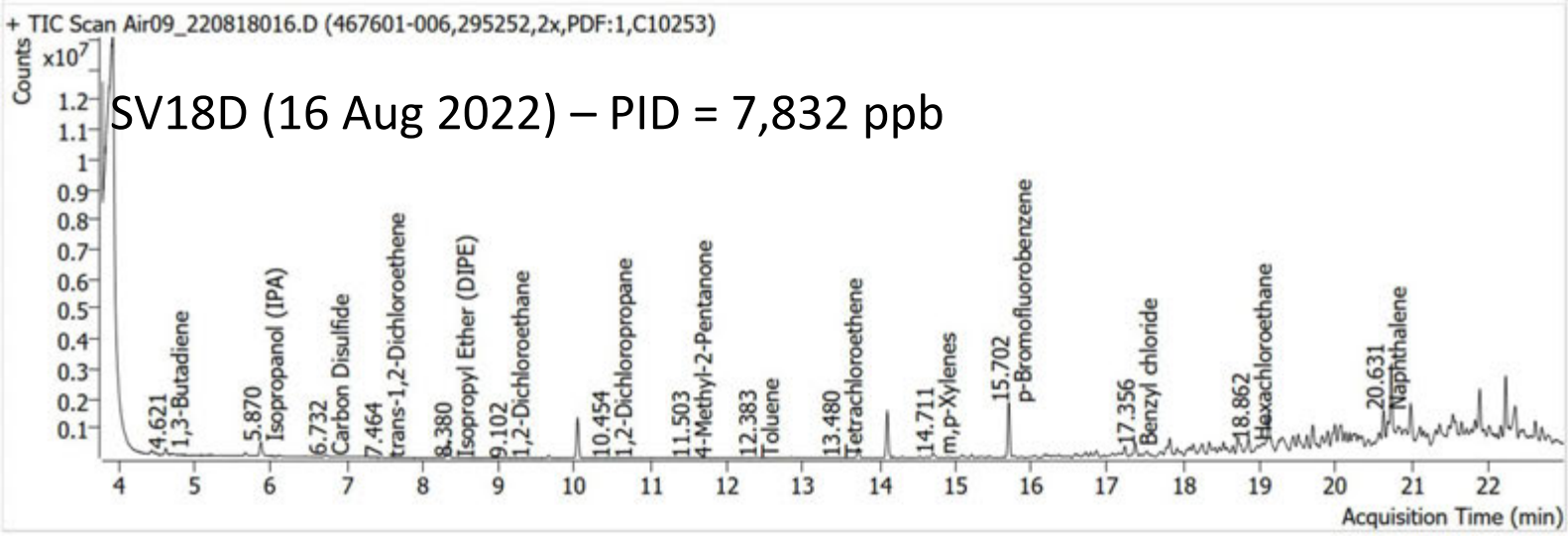

+ TIC Scan Air09_220818012.D (467601-002,295252,2x,PDF:1,C10249)
SV15D (16 Aug 2022) – PID = 82 ppb
Counts
x10^7
4.172 Freon 12
5.206 Ethanol
5.861 Isopropanol (IPA)
7.482 trans-1,2-Dichloroethene
8.368 Isopropyl Ether (DIPE)
10.018 Cyclohexane
10.671 Trichloroethene
11.521 4-Methyl-2-Pentanone
12.374 Toluene
13.477 Tetrachloroethene
14.705 m,p-Xylenes
15.702 p-Bromofluorobenzene
16.573 n-Propylbenzene
17.413 1,3-Dichlorobenzene
18.360 n-Butylbenzene
20.627 Naphthalene
Acquisition Time (min)

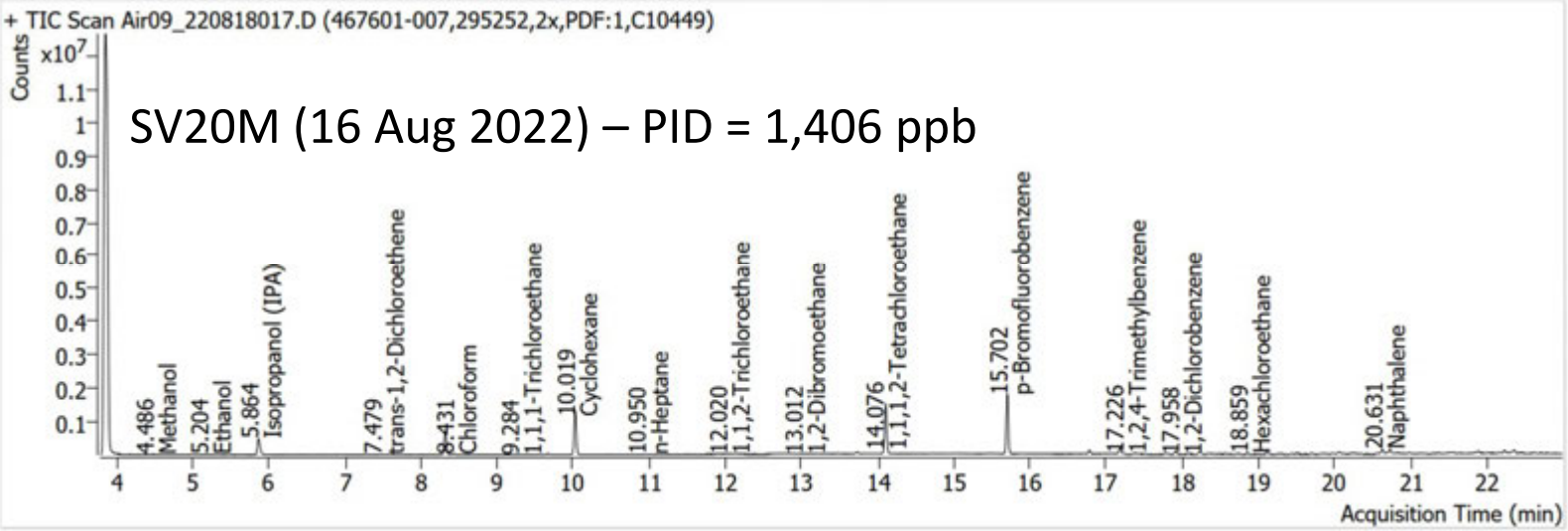

+ TIC Scan Air09_220818013.D (467601-003,295252,2x,PDF:1,C10371)
SV17S (16 Aug 2022) – PID = 860 ppb
Counts
x10^7
4.170 Chloromethane
5.207 Ethanol
5.867 Isopropanol (IPA)
7.479 MTBE
8.368 Isopropyl Ether (DIPE)
10.028 Cyclohexane
11.509 4-Methyl-2-Pentanone
12.377 Toluene
13.477 Tetrachloroethene
14.708 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.226 tert-Butylbenzene
17.946 1,2-Dichlorobenzene
18.862 Hexachloroethane
20.630 Naphthalene
Acquisition Time (min)

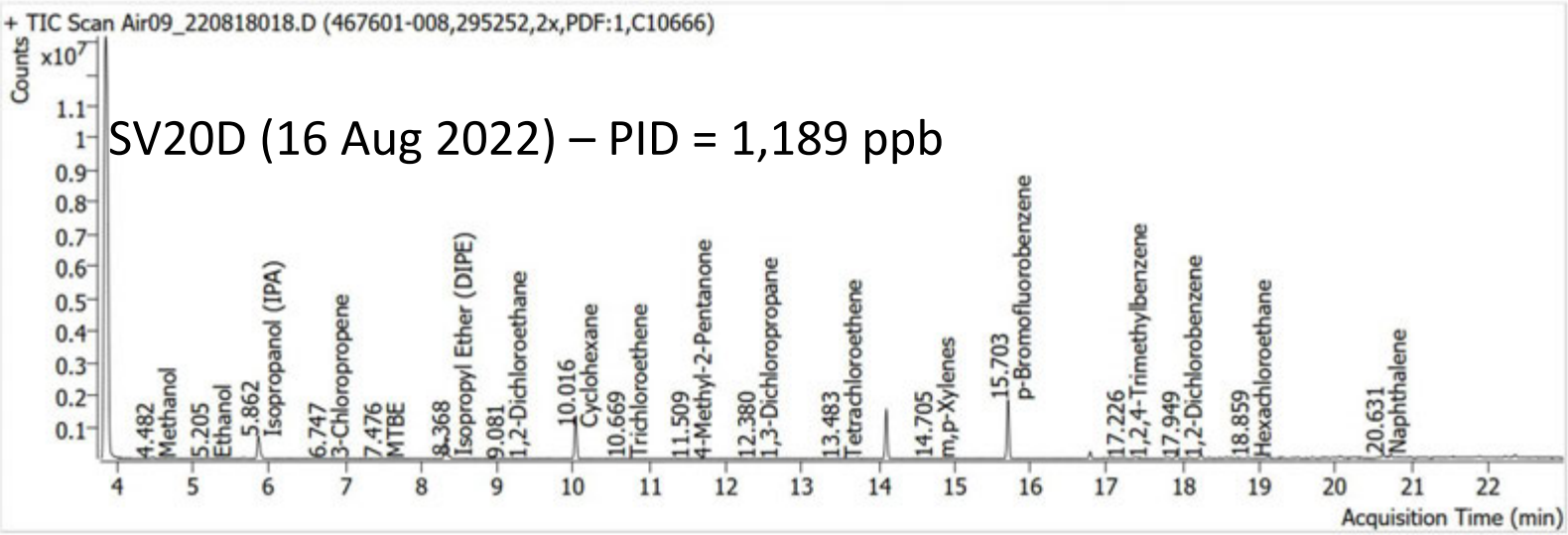

+ TIC Scan Air09_220818019.D (467601-003,295252,8x,PDF:1,C10371)
SV17S (16 Aug 2022) – PID = 860 ppb
Counts
x10^7
4.172 Freon 12
5.215 Ethanol
5.885 n-Pentane
7.491 trans-1,2-Dichloroethene
8.383 Isopropyl Ether (DIPE)
10.030 Cyclohexane
11.518 4-Methyl-2-Pentanone
12.376 Toluene
13.943 1,1,1,2-Tetrachloroethane
14.710 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.229 tert-Butylbenzene
17.948 1,2-Dichlorobenzene
18.865 Hexachloroethane
20.630 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_220818020.D (467601-004,295252,10x,PDF:1,C10362)
SV17D (16 Aug 2022) – PID = 1,714 ppb
Counts
x10^7
4.168 Freon 12
5.215 Ethanol
5.883 Isopropanol (IPA)
7.576 Vinyl Acetate
8.380 cis-1,2-Dichloroethene
10.016 Cyclohexane
11.527 4-Methyl-2-Pentanone
12.380 Toluene
13.036 1,2-Dibromoethane
13.946 1,1,1,2-Tetrachloroethane
14.699 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.232 tert-Butylbenzene
18.856 Hexachloroethane
20.631 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_220818015.D (467601-005,295252,2x,PDF:1,C10498)
SV18S (16 Aug 2022) – PID = 7,193 ppb
Counts
x10^7
4.644 1,3-Butadiene
5.874 Isopropanol (IPA)
6.744 Carbon Disulfide
7.473 trans-1,2-Dichloroethene
8.377 Isopropyl Ether (DIPE)
9.081 1,2-Dichloroethane
10.013 Cyclohexane
11.506 4-Methyl-2-Pentanone
12.380 Toluene
13.474 Tetrachloroethene
14.708 m,p-Xylenes
15.703 p-Bromofluorobenzene
17.229 tert-Butylbenzene
17.955 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.628 Naphthalene

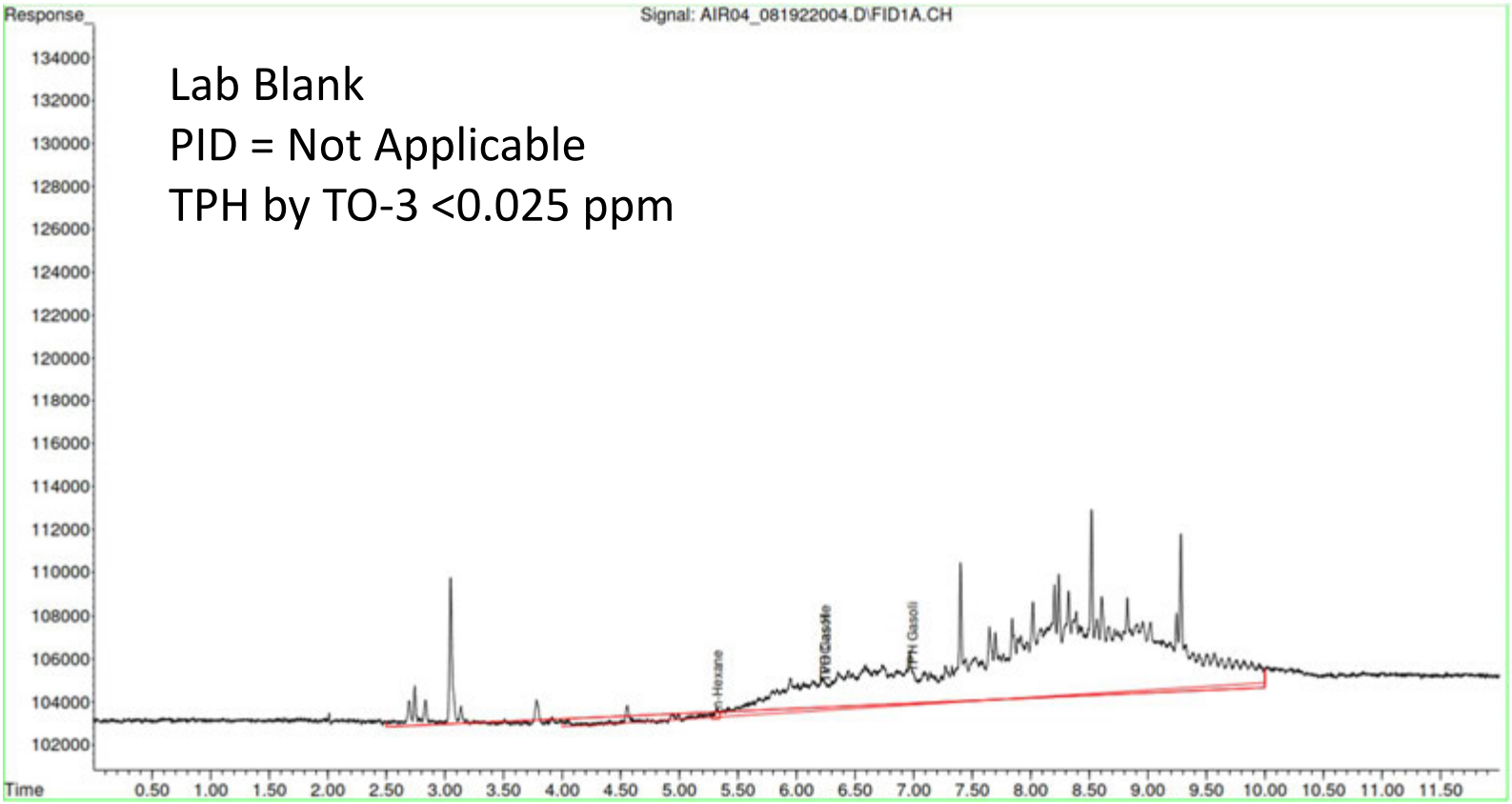

+ TIC Scan Air09_220818016.D (467601-006,295252,2x,PDF:1,C10253)
SV18D (16 Aug 2022) – PID = 7,832 ppb
Counts
x10^7
4.621 1,3-Butadiene
5.870 Isopropanol (IPA)
6.732 Carbon Disulfide
7.464 trans-1,2-Dichloroethene
8.380 Isopropyl Ether (DIPE)
9.102 1,2-Dichloroethane
10.454 1,2-Dichloropropane
11.503 4-Methyl-2-Pentanone
12.383 Toluene
13.480 Tetrachloroethene
14.711 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.356 Benzyl chloride
18.862 Hexachloroethane
20.631 Naphthalene
Acquisition Time (min)

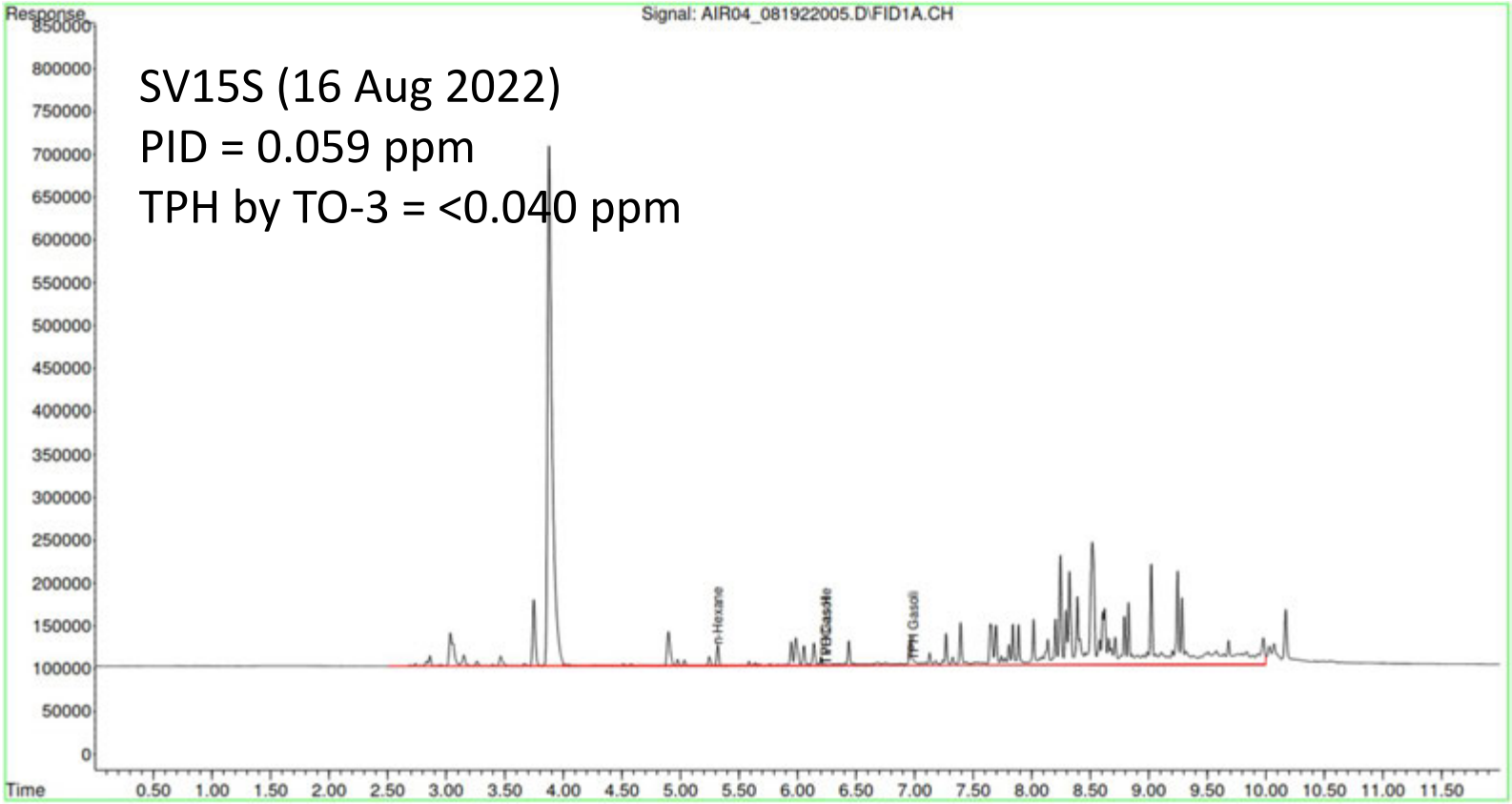

+ TIC Scan Air09_220818017.D (467601-007,295252,2x,PDF:1,C10449)
SV20M (16 Aug 2022) – PID = 1,406 ppb
Counts
x10^7
4.486 Methanol
5.204 Ethanol
5.864 Isopropanol (IPA)
7.479 trans-1,2-Dichloroethene
8.431 Chloroform
9.284 1,1,1-Trichloroethane
10.019 Cyclohexane
10.950 n-Heptane
12.020 1,1,2-Trichloroethane
13.012 1,2-Dibromoethane
14.076 1,1,1,2-Tetrachloroethane
15.702 p-Bromofluorobenzene
17.226 1,2,4-Trimethylbenzene
17.958 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.631 Naphthalene
Acquisition Time (min)

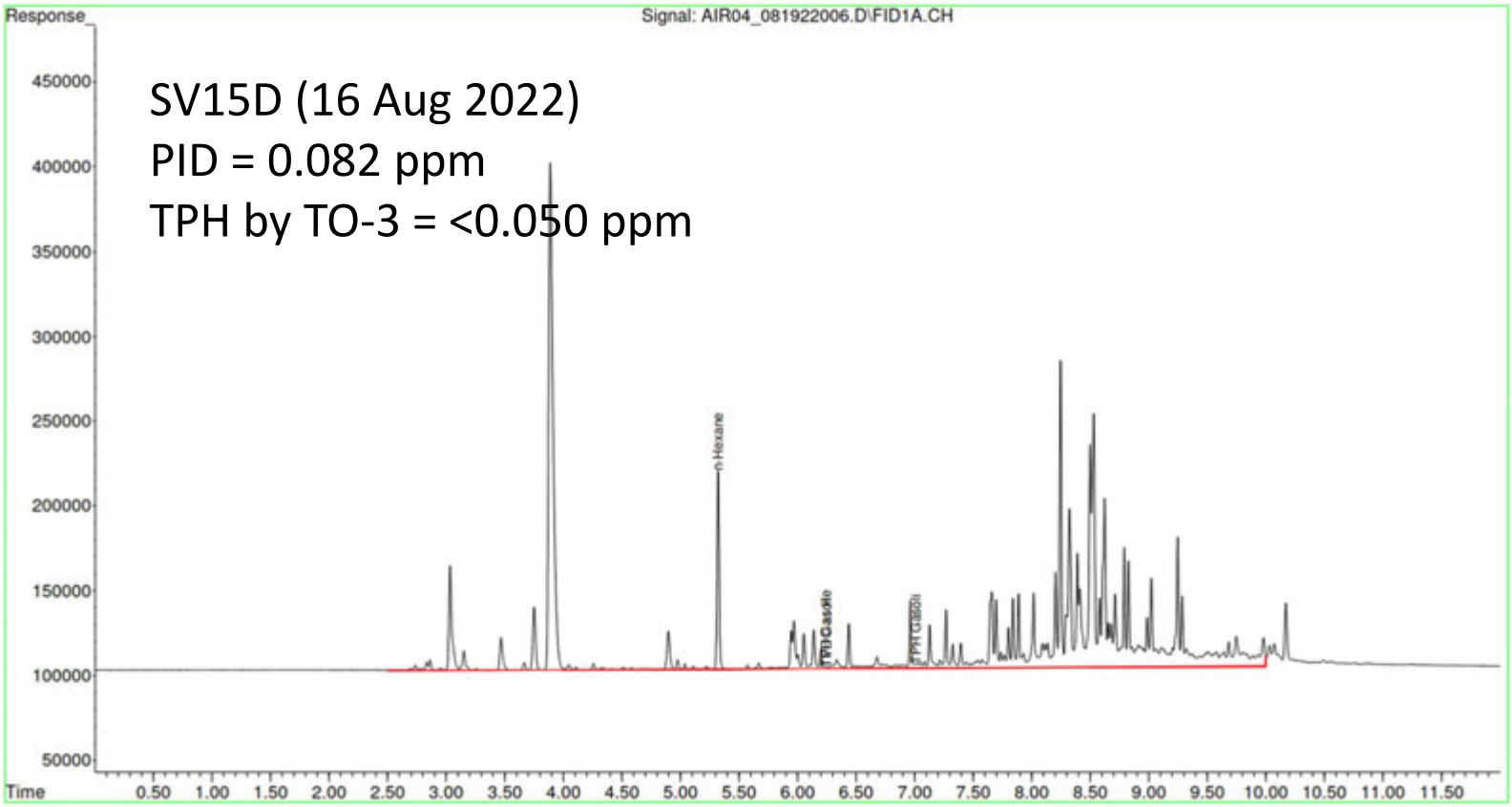

+ TIC Scan Air09_220818018.D (467601-008,295252,2x,PDF:1,C10666)
SV20D (16 Aug 2022) – PID = 1,189 ppb
Counts
x10^7
4.482 Methanol
5.205 Ethanol
5.862 Isopropanol (IPA)
6.747 3-Chloropropene
7.476 MTBE
8.368 Isopropyl Ether (DIPE)
9.081 1,2-Dichloroethane
10.016 Cyclohexane
10.669 Trichloroethene
11.509 4-Methyl-2-Pentanone
12.380 1,3-Dichloropropane
13.483 Tetrachloroethene
14.705 m,p-Xylenes
15.703 p-Bromofluorobenzene
17.226 1,2,4-Trimethylbenzene
17.949 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.631 Naphthalene
Acquisition Time (min)

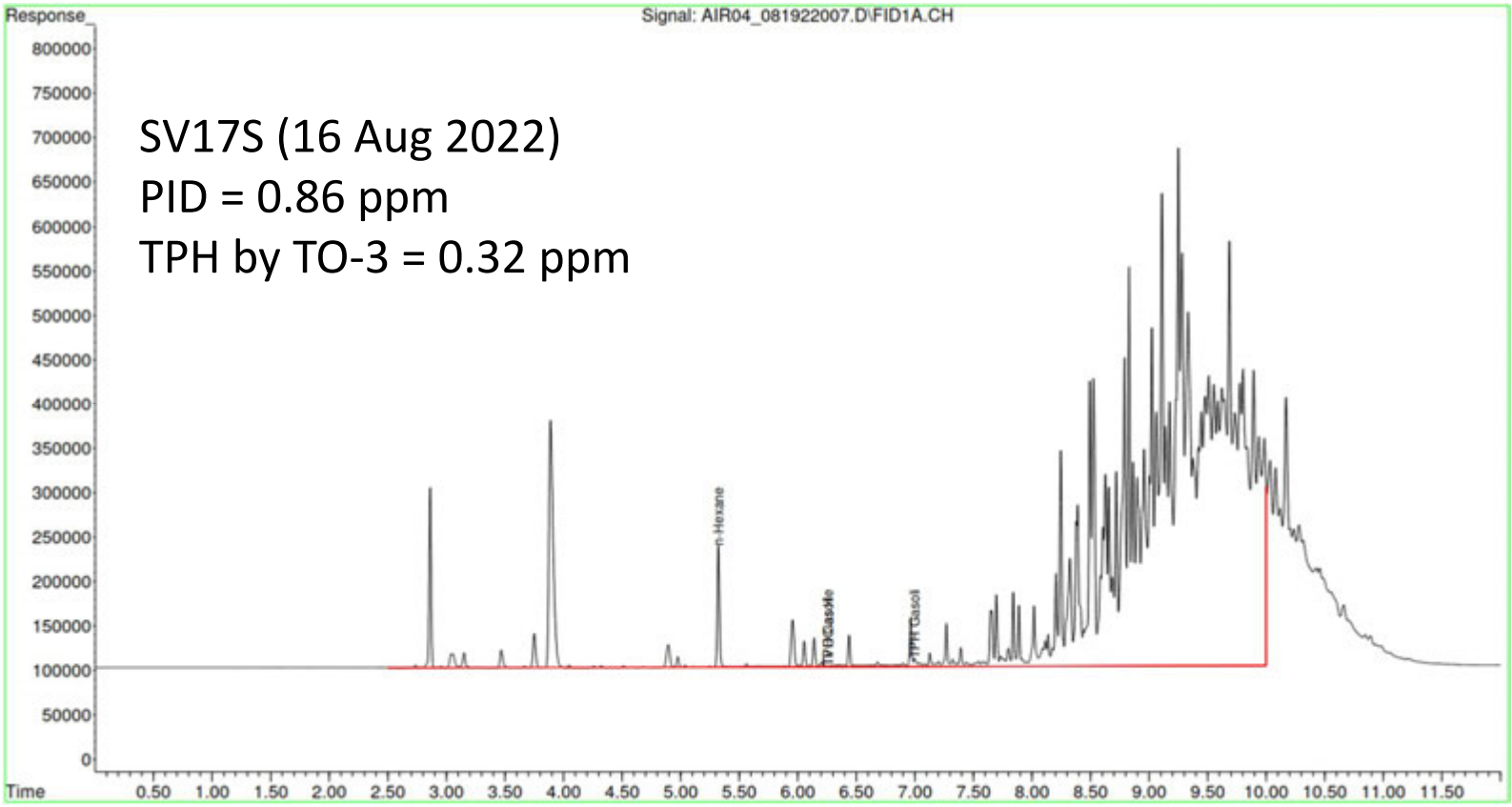
August 2022
Soil Vapor Samples

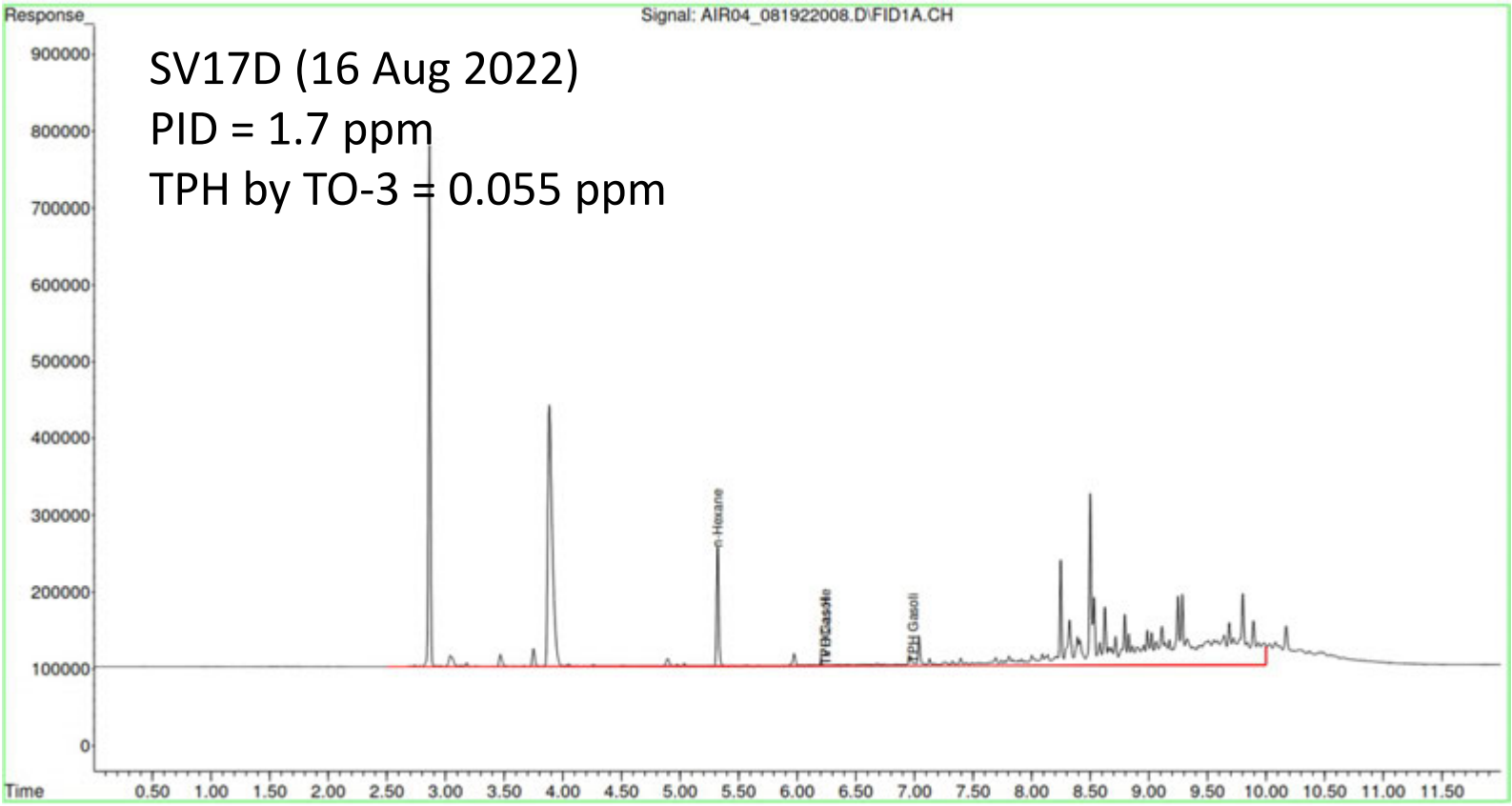
FID Chromatograms

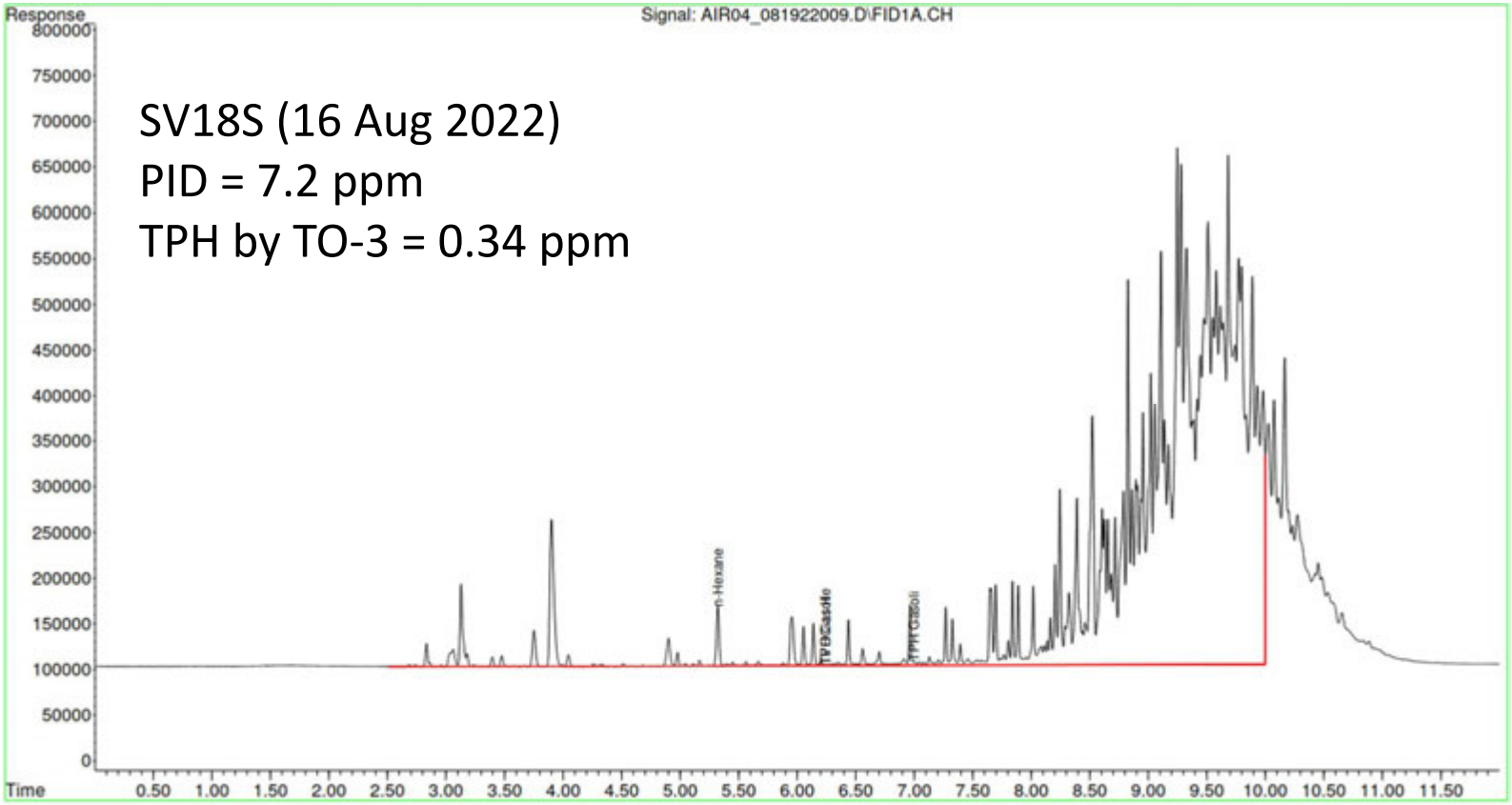

Signal: AIR04_081922004.D\FID1A.CH
Response
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

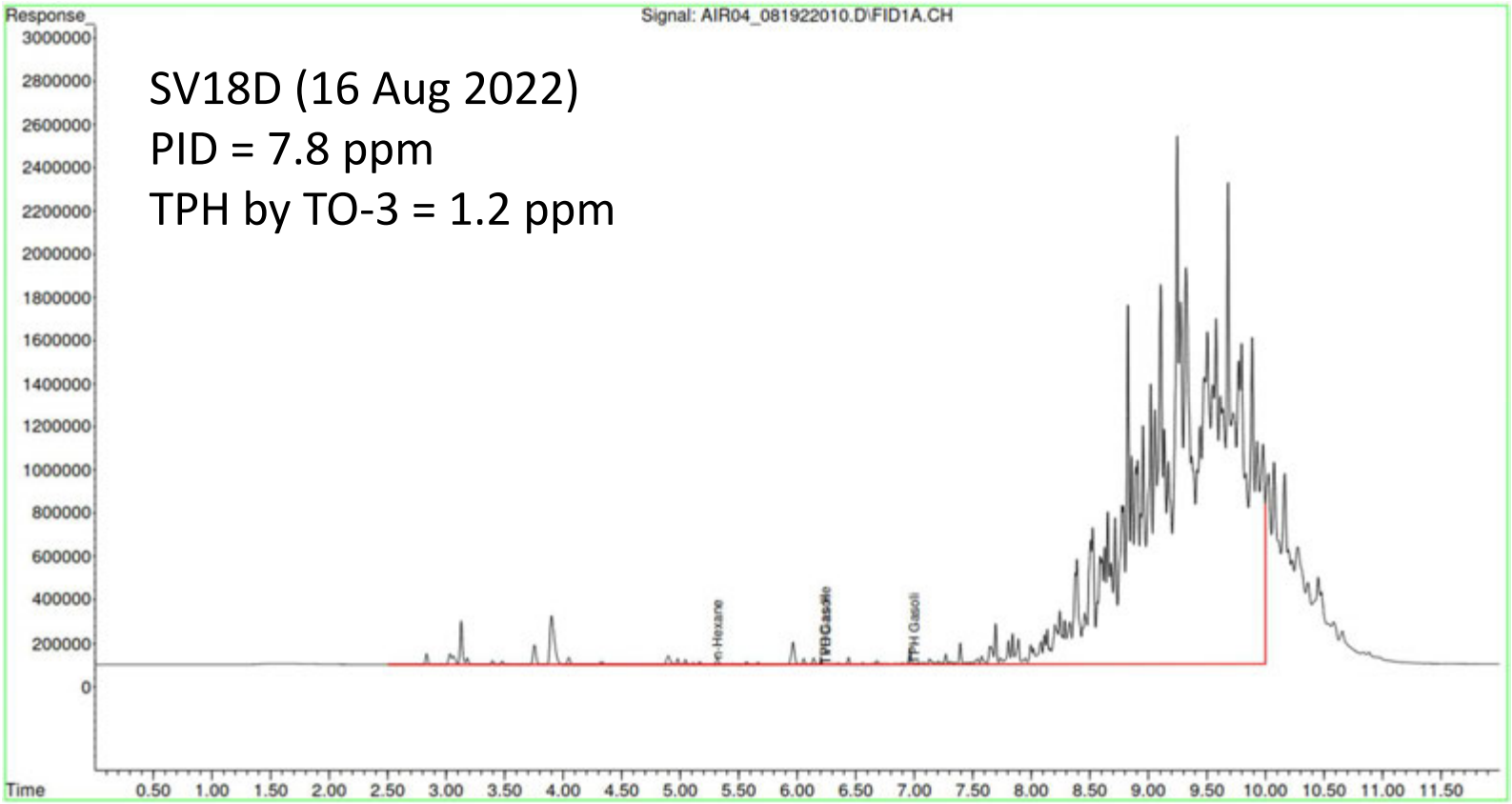

Signal: AIR04_081922005.D\FID1A.CH
Response
SV15S (16 Aug 2022)
PID = 0.059 ppm
TPH by TO-3 = <0.040 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

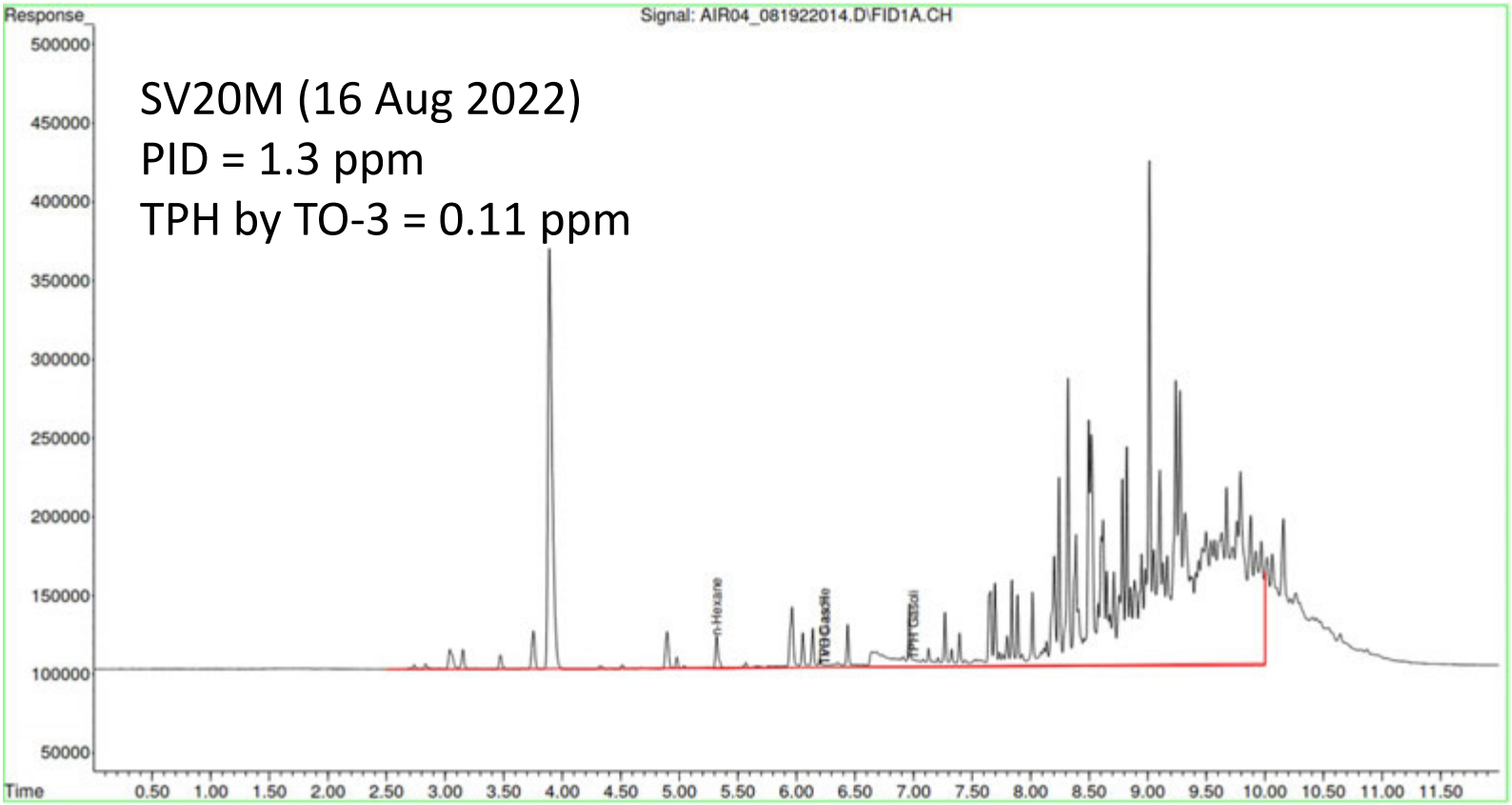

Signal: AIR04_081922006.D\FID1A.CH
Response
SV15D (16 Aug 2022)
PID = 0.082 ppm
TPH by TO-3 = <0.050 ppm
n-Hexane
Time

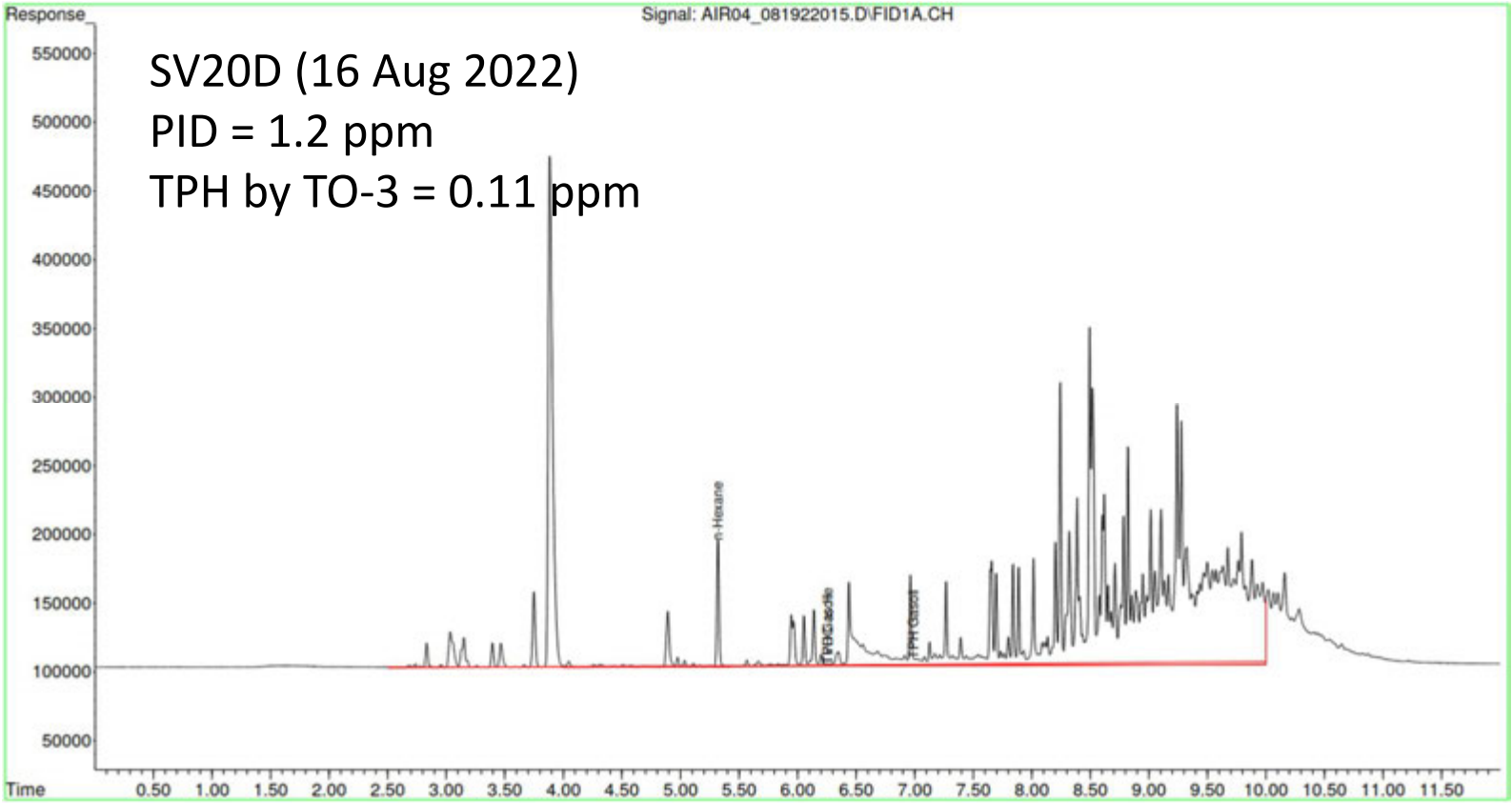

Signal: AIR04_081922007.D\FID1A.CH
Response
SV17S (16 Aug 2022)
PID = 0.86 ppm
TPH by TO-3 = 0.32 ppm
n-Hexane
Time


Signal: AIR04_081922008.D\FID1A.CH
Response
SV17D (16 Aug 2022)
PID = 1.7 ppm
TPH by TO-3 = 0.055 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time


Signal: AIR04_081922009.D\FID1A.CH
Response
SV18S (16 Aug 2022)
PID = 7.2 ppm
TPH by TO-3 = 0.34 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

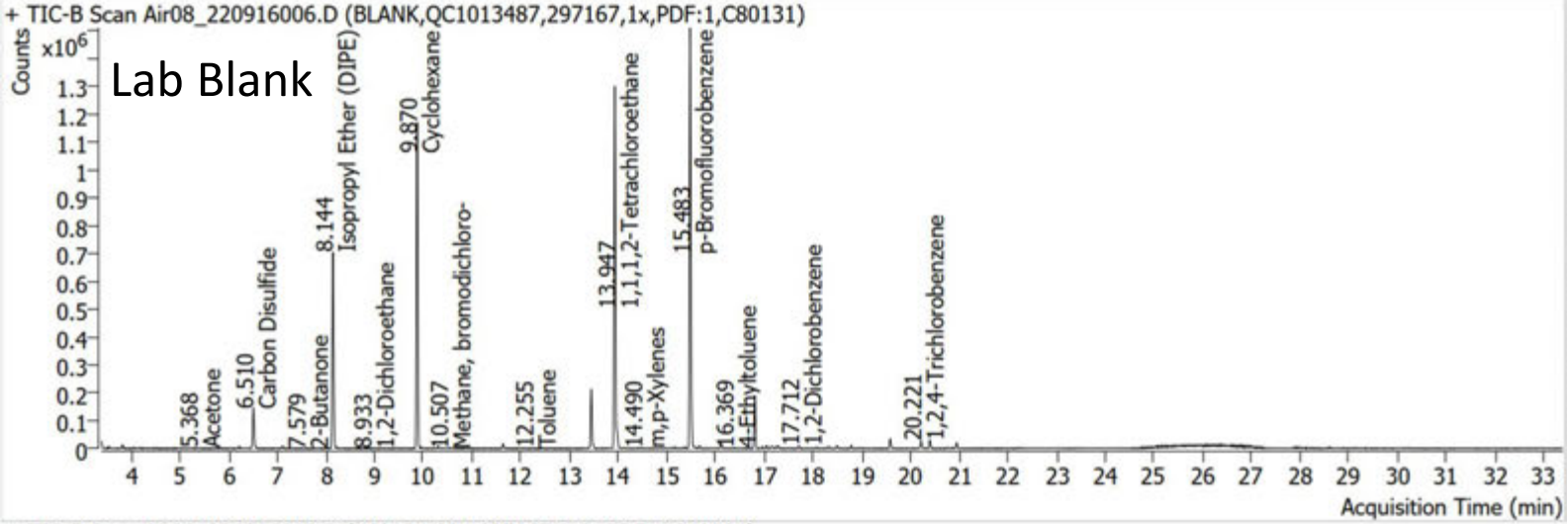

Signal: AIR04_081922010.D\FID1A.CH
Response
SV18D (16 Aug 2022)
PID = 7.8 ppm
TPH by TO-3 = 1.2 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

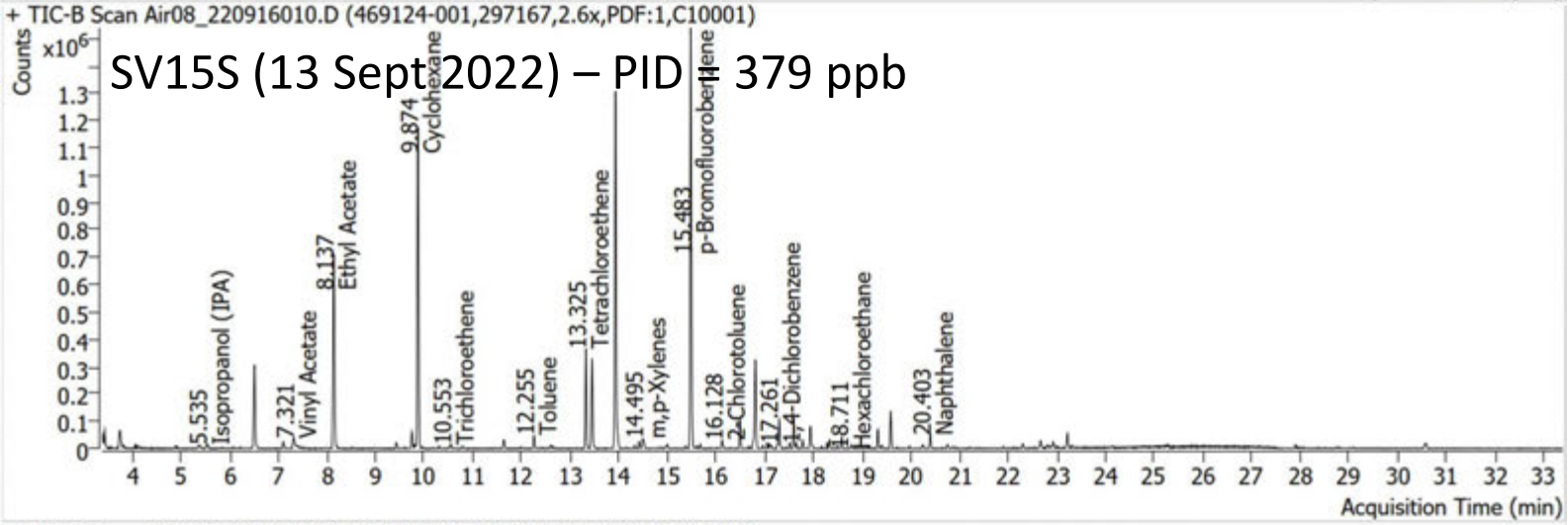

Signal: AIR04_081922014.D\FID1A.CH
Response
SV20M (16 Aug 2022)
PID = 1.3 ppm
TPH by TO-3 = 0.11 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

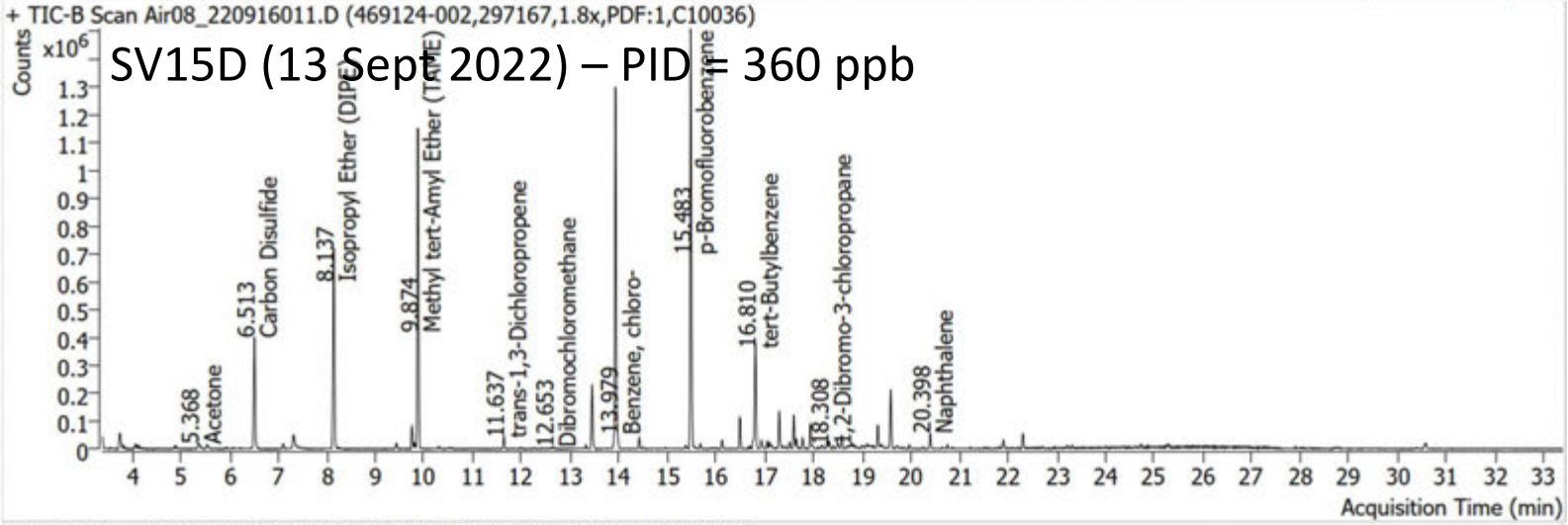

Response
Signal: AIR04_081922015.D\FID1A.CH
SV20D (16 Aug 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.11 ppm
n-Hexane
Time

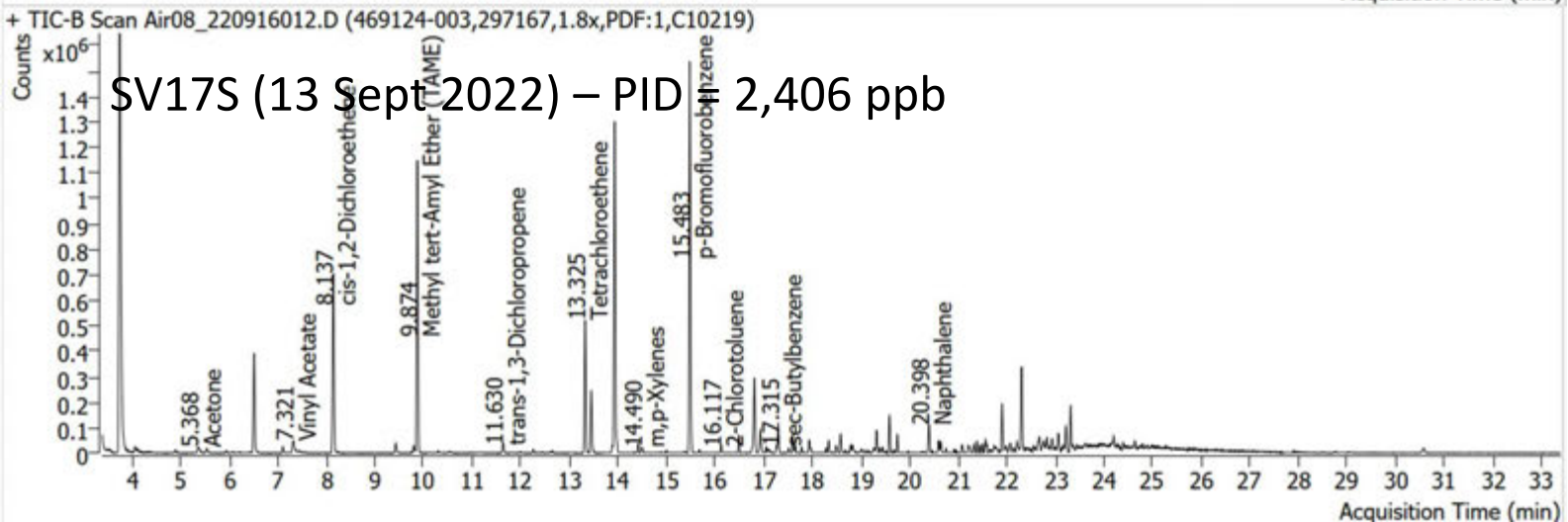
September 2022
Soil Vapor Samples

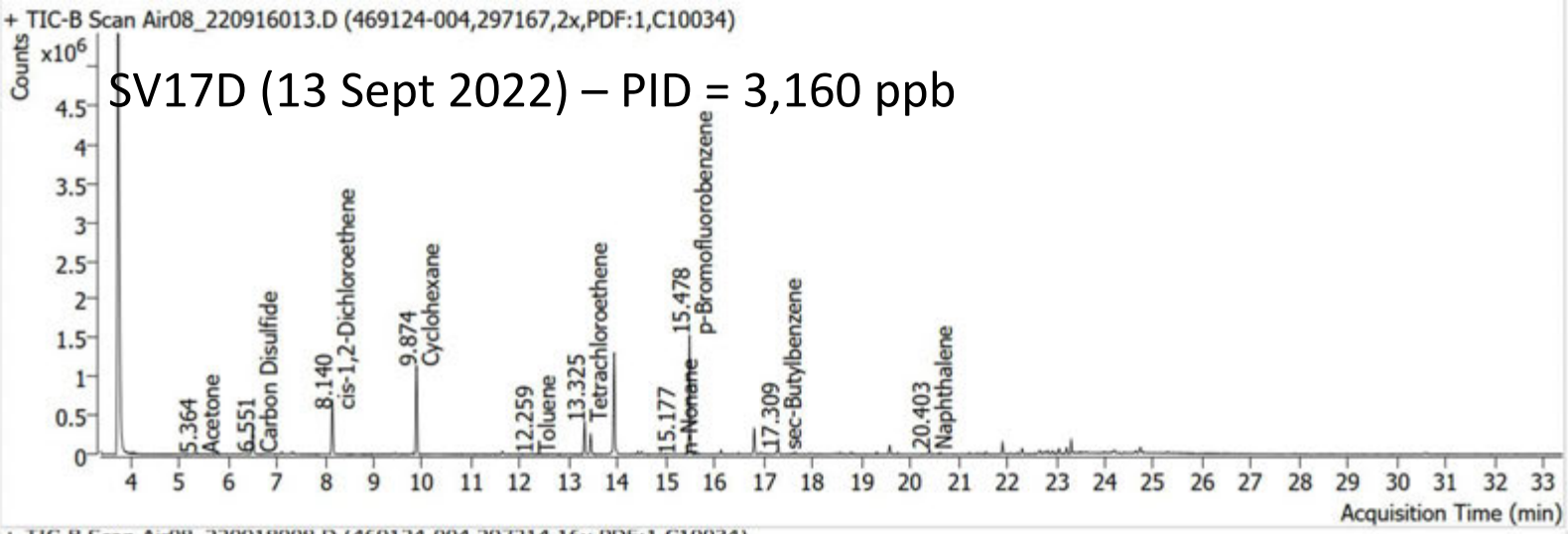
Mass Spec Chromatograms

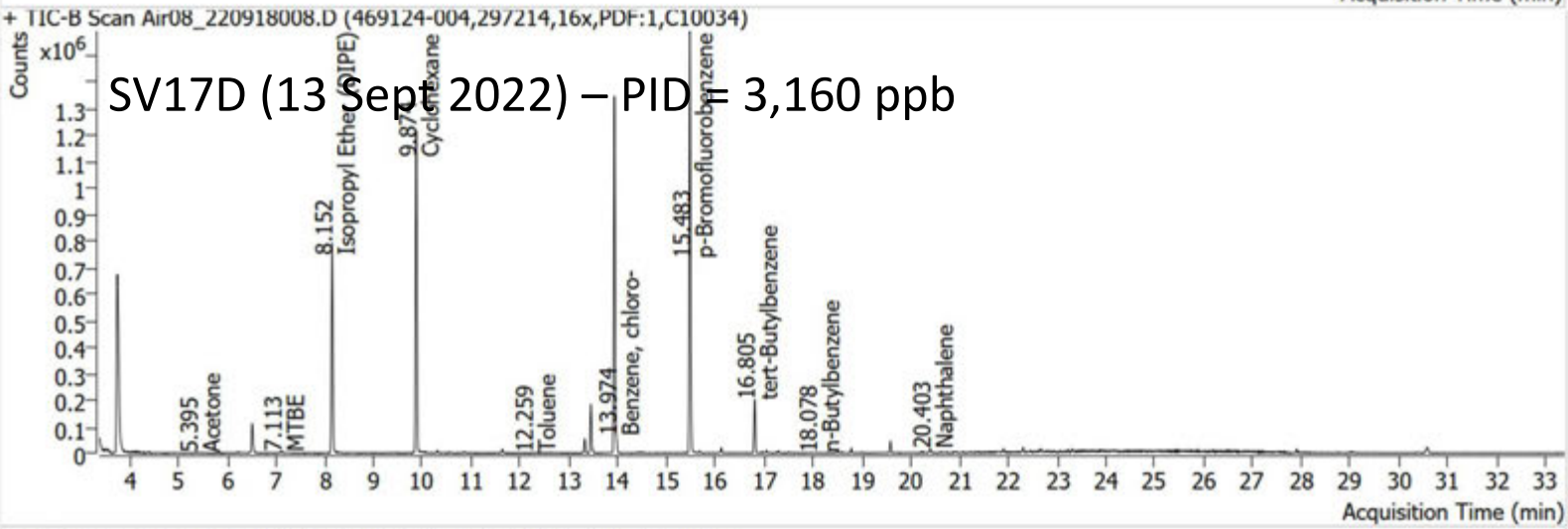

+ TIC-B Scan Air08_220916006.D (BLANK,QC1013487,297167,1x,PDF:1,C80131)
Lab Blank
Counts
x10^6
5.368 Acetone
6.510 Carbon Disulfide
7.579 2-Butanone
8.144 Isopropyl Ether (DIPE)
8.933 1,2-Dichloroethane
9.870 Cyclohexane
10.507 Methane, bromodichloro-
12.255 Toluene
13.947 1,1,1,2-Tetrachloroethane
14.490 m,p-Xylenes
15.483 p-Bromofluorobenzene
16.369 4-Ethyltoluene
17.712 1,2-Dichlorobenzene
20.221 1,2,4-Trichlorobenzene
Acquisition Time (min)

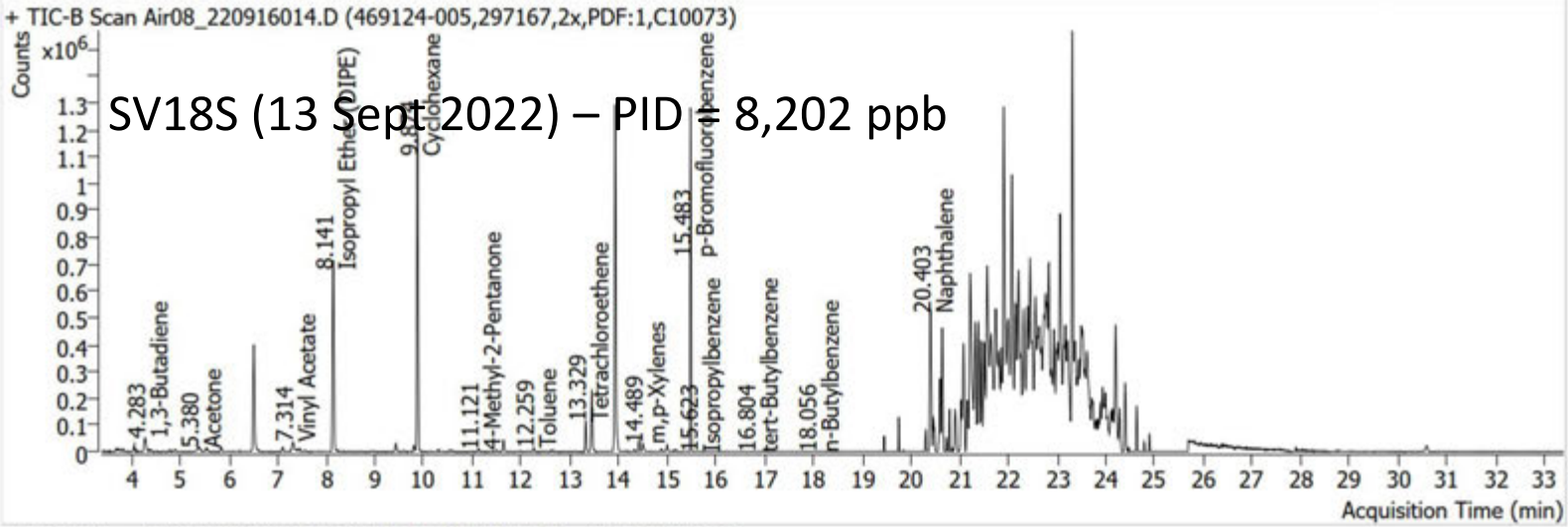

+ TIC-B Scan Air08_220916010.D (469124-001,297167,2.6x,PDF:1,C10001)
SV15S (13 Sept 2022) – PID = 379 ppb
Counts
x10^6
5.535 Isopropanol (IPA)
7.321 Vinyl Acetate
8.137 Ethyl Acetate
9.874 Cyclohexane
10.553 Trichloroethene
12.255 Toluene
13.325 Tetrachloroethene
14.495 m,p-Xylenes
15.483 p-Bromofluorobenzene
16.128 2-Chlorotoluene
17.261 1,4-Dichlorobenzene
18.711 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

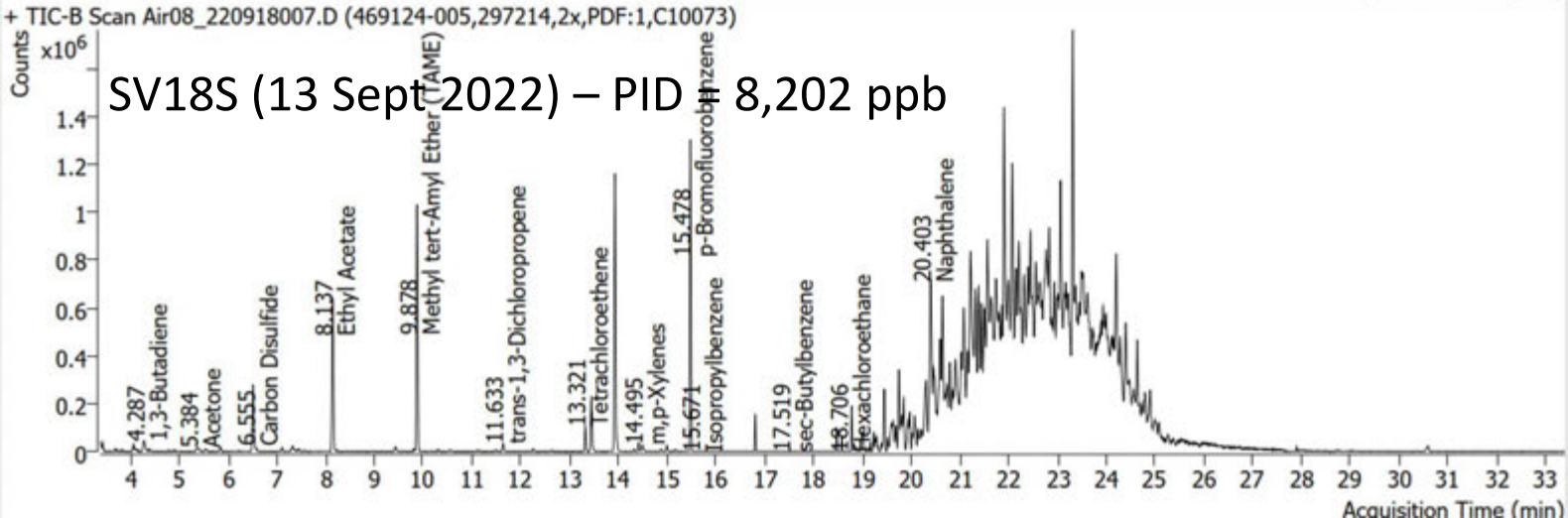

+ TIC-B Scan Air08_220916011.D (469124-002,297167,1.8x,PDF:1,C10036)
SV15D (13 Sept 2022) – PID = 360 ppb
Counts
x10^6
5.368 Acetone
6.513 Carbon Disulfide
8.137 Isopropyl Ether (DIPE)
9.874 Methyl tert-Amyl Ether (TAME)
11.637 trans-1,3-Dichloropropene
12.653 Dibromochloromethane
13.979 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.810 tert-Butylbenzene
18.308 1,2-Dibromo-3-chloropropane
20.398 Naphthalene
Acquisition Time (min)

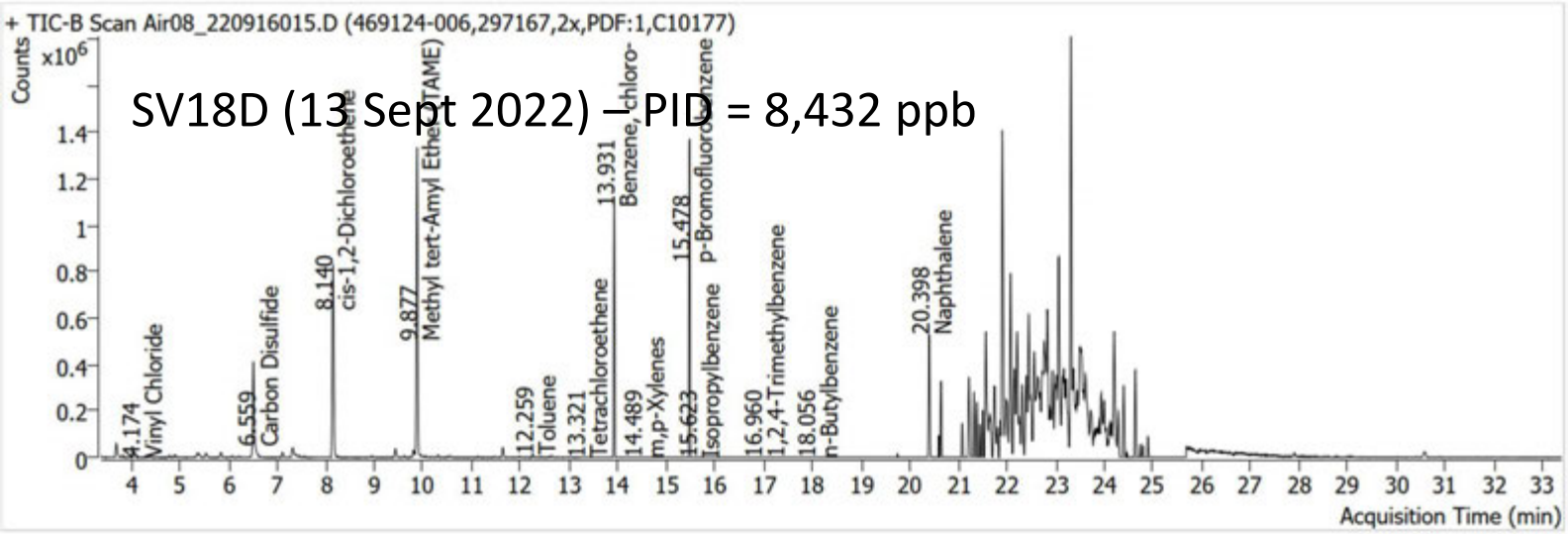

+ TIC-B Scan Air08_220916012.D (469124-003,297167,1.8x,PDF:1,C10219)
SV17S (13 Sept 2022) – PID = 2,406 ppb
Counts
x10^6
5.368 Acetone
7.321 Vinyl Acetate
8.137 cis-1,2-Dichloroethene
9.874 Methyl tert-Amyl Ether (TAME)
11.630 trans-1,3-Dichloropropene
13.325 Tetrachloroethene
14.490 m,p-Xylenes
15.483 p-Bromofluorobenzene
16.117 2-Chlorotoluene
17.315 sec-Butylbenzene
20.398 Naphthalene
Acquisition Time (min)

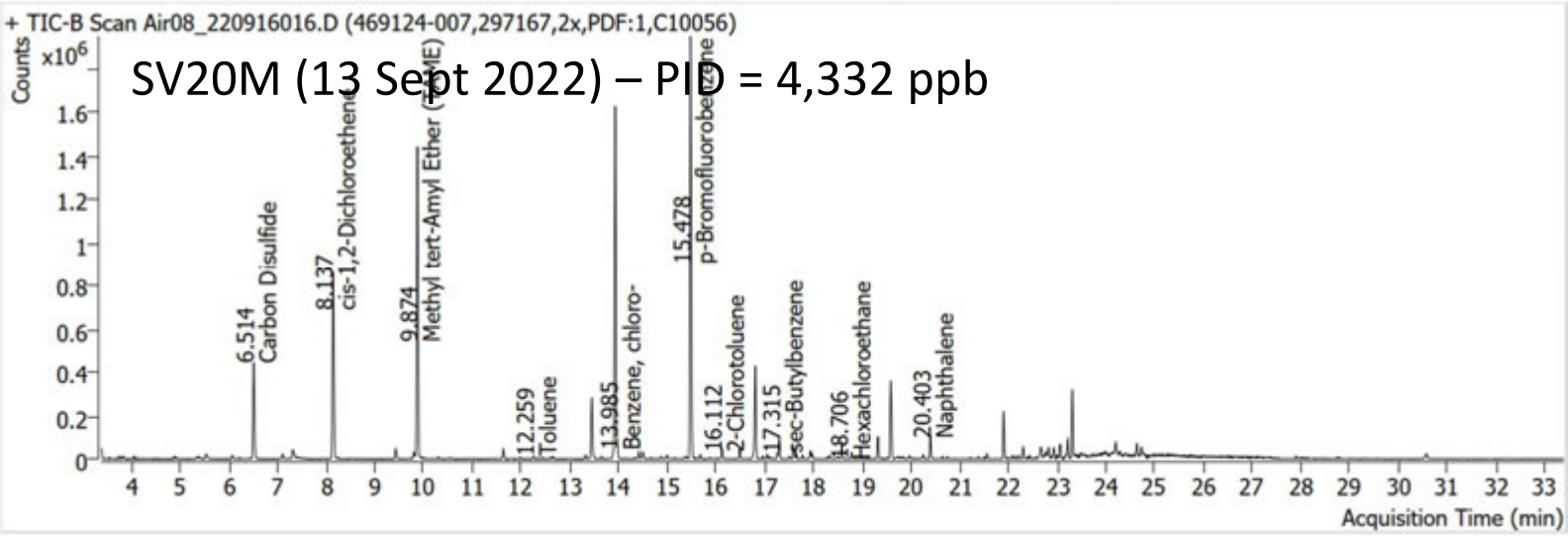

+ TIC-B Scan Air08_220916013.D (469124-004,297167,2x,PDF:1,C10034)
SV17D (13 Sept 2022) – PID = 3,160 ppb
Counts
x10^6
5.364 Acetone
6.551 Carbon Disulfide
8.140 cis-1,2-Dichloroethene
9.874 Cyclohexane
12.259 Toluene
13.325 Tetrachloroethene
15.177 n-Nonane
15.478 p-Bromofluorobenzene
17.309 sec-Butylbenzene
20.403 Naphthalene
Acquisition Time (min)

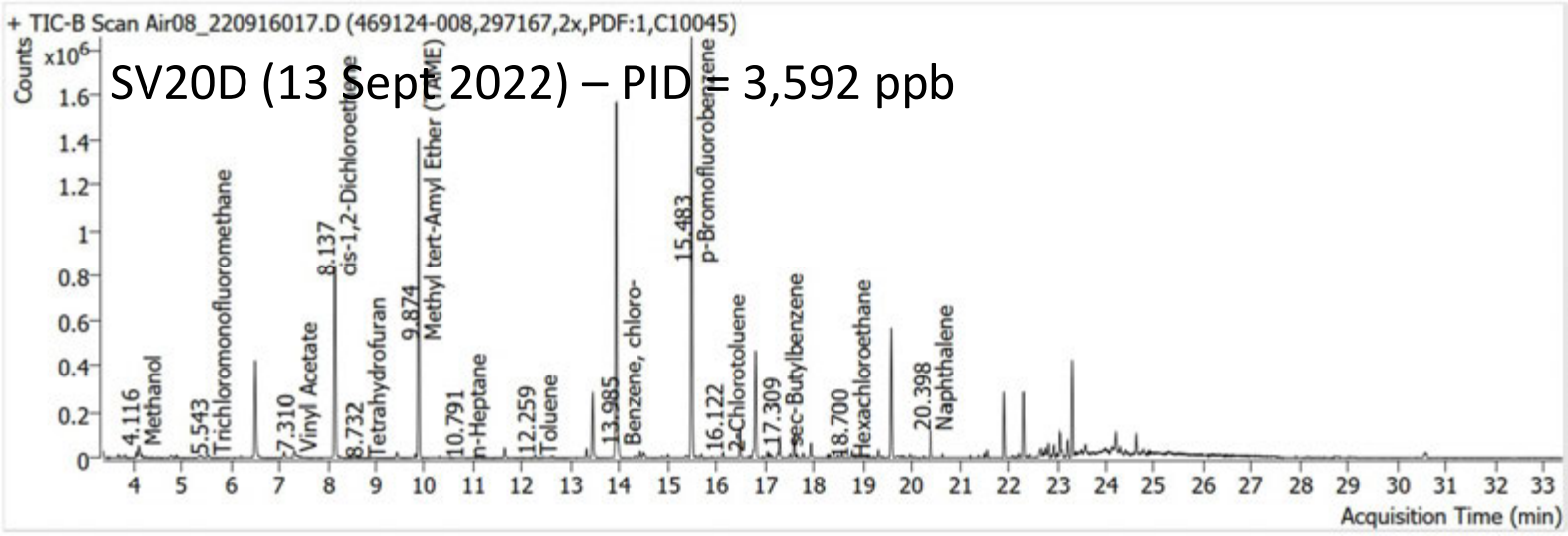

+ TIC-B Scan Air08_220918008.D (469124-004,297214,16x,PDF:1,C10034)
SV17D (13 Sept 2022) – PID = 3,160 ppb
Counts
x10^6
5.395 Acetone
7.113 MTBE
8.152 Isopropyl Ether (DIPE)
9.874 Cyclohexane
12.259 Toluene
13.974 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.805 tert-Butylbenzene
18.078 n-Butylbenzene
20.403 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_220916014.D (469124-005,297167,2x,PDF:1,C10073)
SV18S (13 Sept 2022) – PID = 8,202 ppb
Counts
x10^6
4.283 1,3-Butadiene
5.380 Acetone
7.314 Vinyl Acetate
8.141 Isopropyl Ether (DIPE)
9.874 Cyclohexane
11.121 4-Methyl-2-Pentanone
12.259 Toluene
13.329 Tetrachloroethene
14.489 m,p-Xylenes
15.483 p-Bromofluorobenzene
15.623 Isopropylbenzene
16.804 tert-Butylbenzene
18.056 n-Butylbenzene
20.403 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_220918007.D (469124-005,297214,2x,PDF:1,C10073)
SV18S (13 Sept 2022) – PID = 8,202 ppb
Counts
x10^6
4.287 1,3-Butadiene
5.384 Acetone
6.555 Carbon Disulfide
8.137 Ethyl Acetate
9.878 Methyl tert-Amyl Ether (TAME)
11.633 trans-1,3-Dichloropropene
13.321 Tetrachloroethene
14.495 m,p-Xylenes
15.478 p-Bromofluorobenzene
15.671 Isopropylbenzene
17.519 sec-Butylbenzene
18.706 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

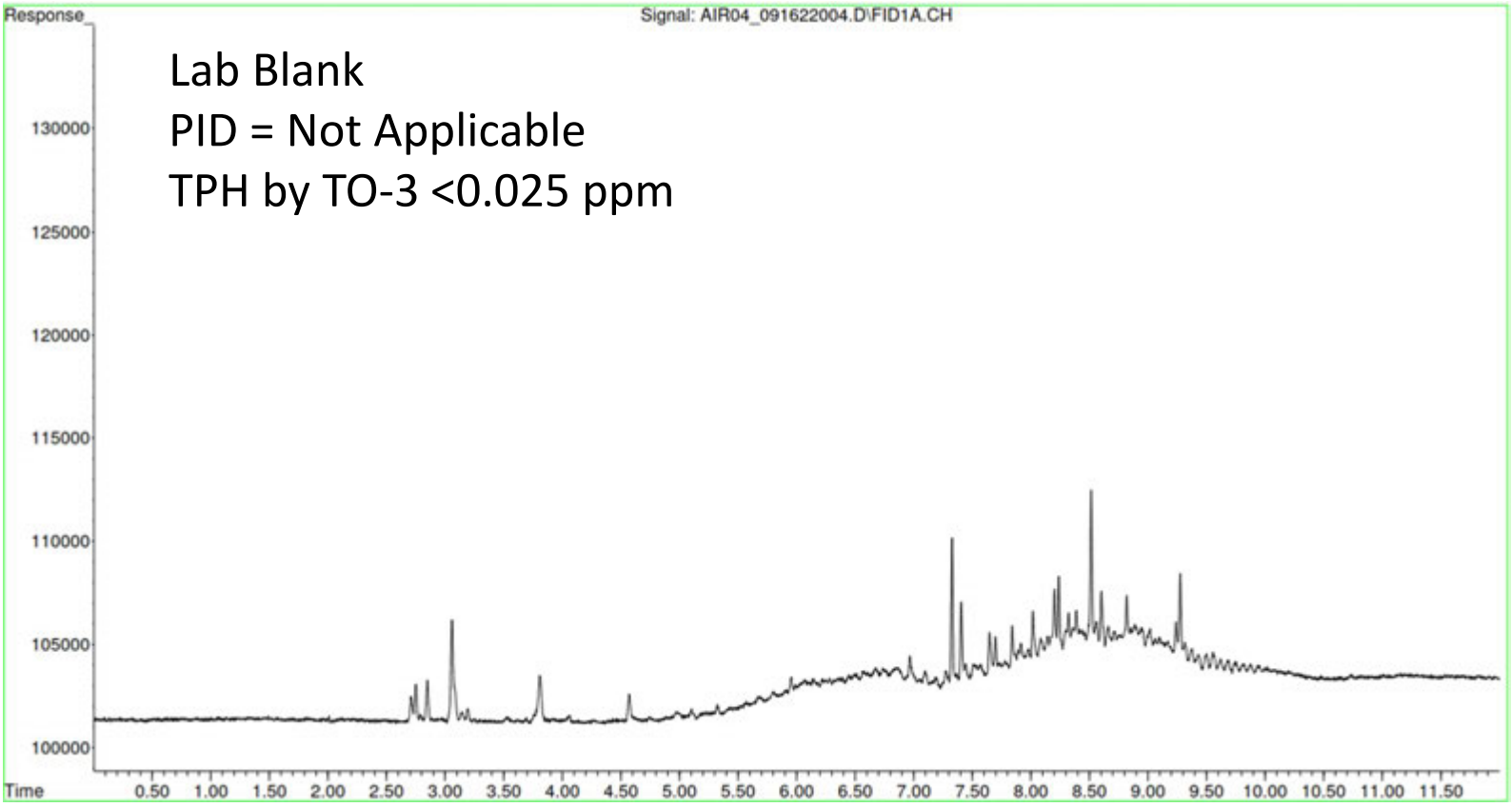

+ TIC-B Scan Air08_220916015.D (469124-006,297167,2x,PDF:1,C10177)
SV18D (13 Sept 2022) – PID = 8,432 ppb
Counts
x10^6
4.174 Vinyl Chloride
6.559 Carbon Disulfide
8.140 cis-1,2-Dichloroethene
9.877 Methyl tert-Amyl Ether (TAME)
12.259 Toluene
13.321 Tetrachloroethene
13.931 Benzene, chloro-
14.489 m,p-Xylenes
15.478 p-Bromofluorobenzene
15.623 Isopropylbenzene
16.960 1,2,4-Trimethylbenzene
18.056 n-Butylbenzene
20.398 Naphthalene
Acquisition Time (min)

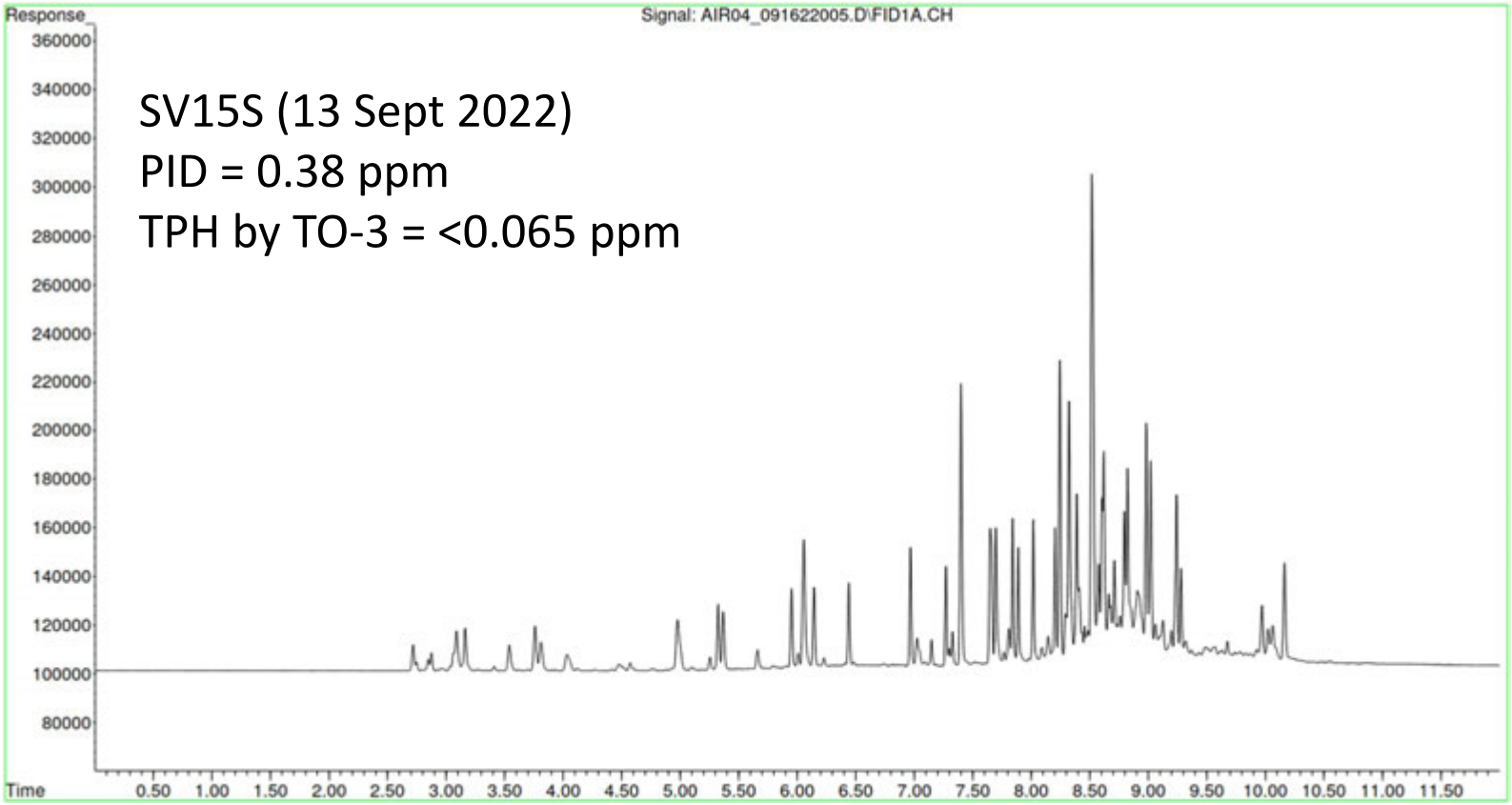

+ TIC-B Scan Air08_220916016.D (469124-007,297167,2x,PDF:1,C10056)
SV20M (13 Sept 2022) – PID = 4,332 ppb
Counts
x10^6
6.514 Carbon Disulfide
8.137 cis-1,2-Dichloroethene
9.874 Methyl tert-Amyl Ether (TAME)
12.259 Toluene
13.985 Benzene, chloro-
15.478 p-Bromofluorobenzene
16.112 2-Chlorotoluene
17.315 sec-Butylbenzene
18.706 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

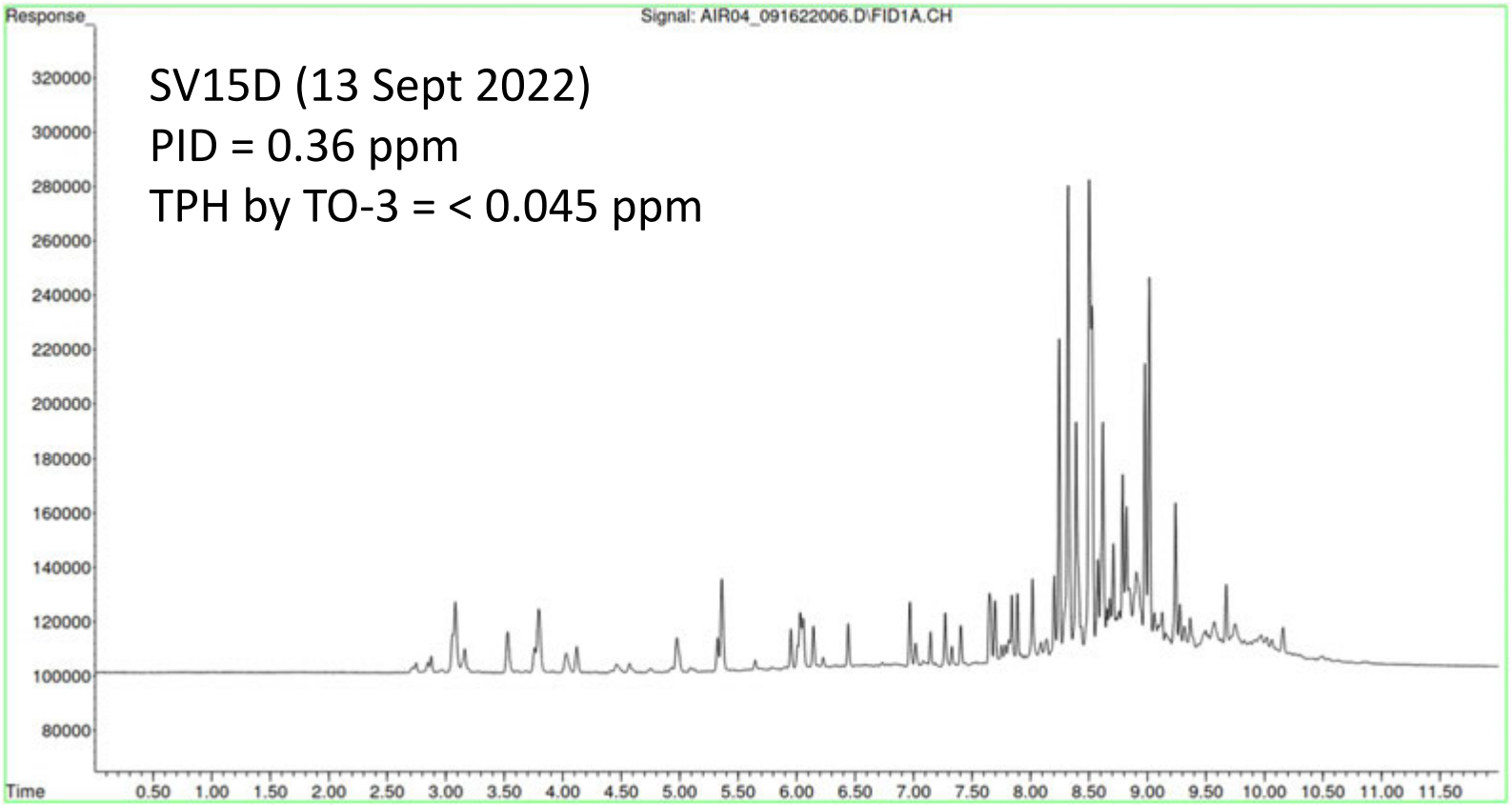

+ TIC-B Scan Air08_220916017.D (469124-008,297167,2x,PDF:1,C10045)
SV20D (13 Sept 2022) – PID = 3,592 ppb
Counts
x10^6
4.116 Methanol
5.543 Trichloromonofluoromethane
7.310 Vinyl Acetate
8.137 cis-1,2-Dichloroethene
8.732 Tetrahydrofuran
9.874 Methyl tert-Amyl Ether (TAME)
10.791 n-Heptane
12.259 Toluene
13.985 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.122 2-Chlorotoluene
17.309 sec-Butylbenzene
18.700 Hexachloroethane
20.398 Naphthalene
Acquisition Time (min)

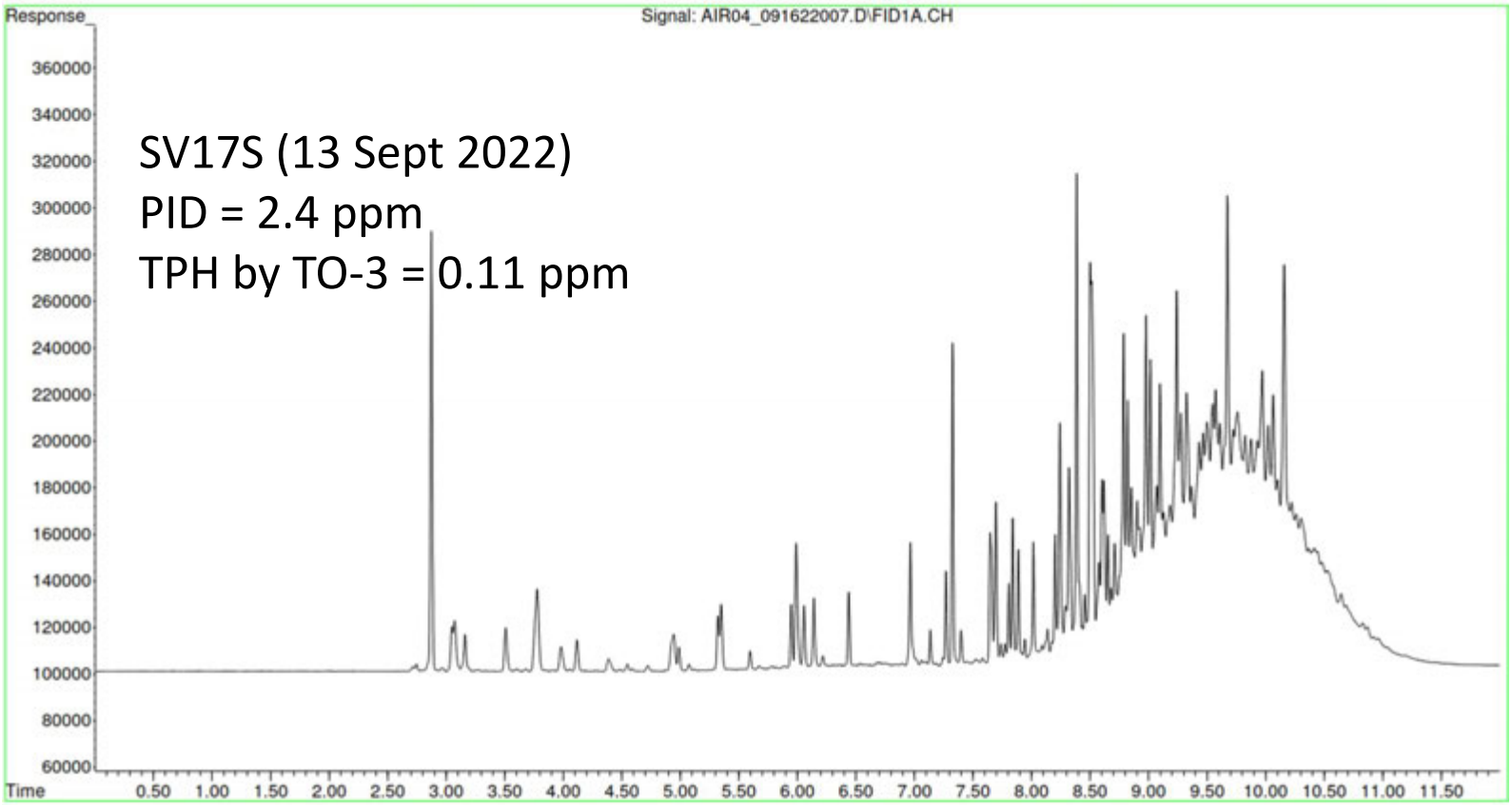
September 2022
Soil Vapor Samples

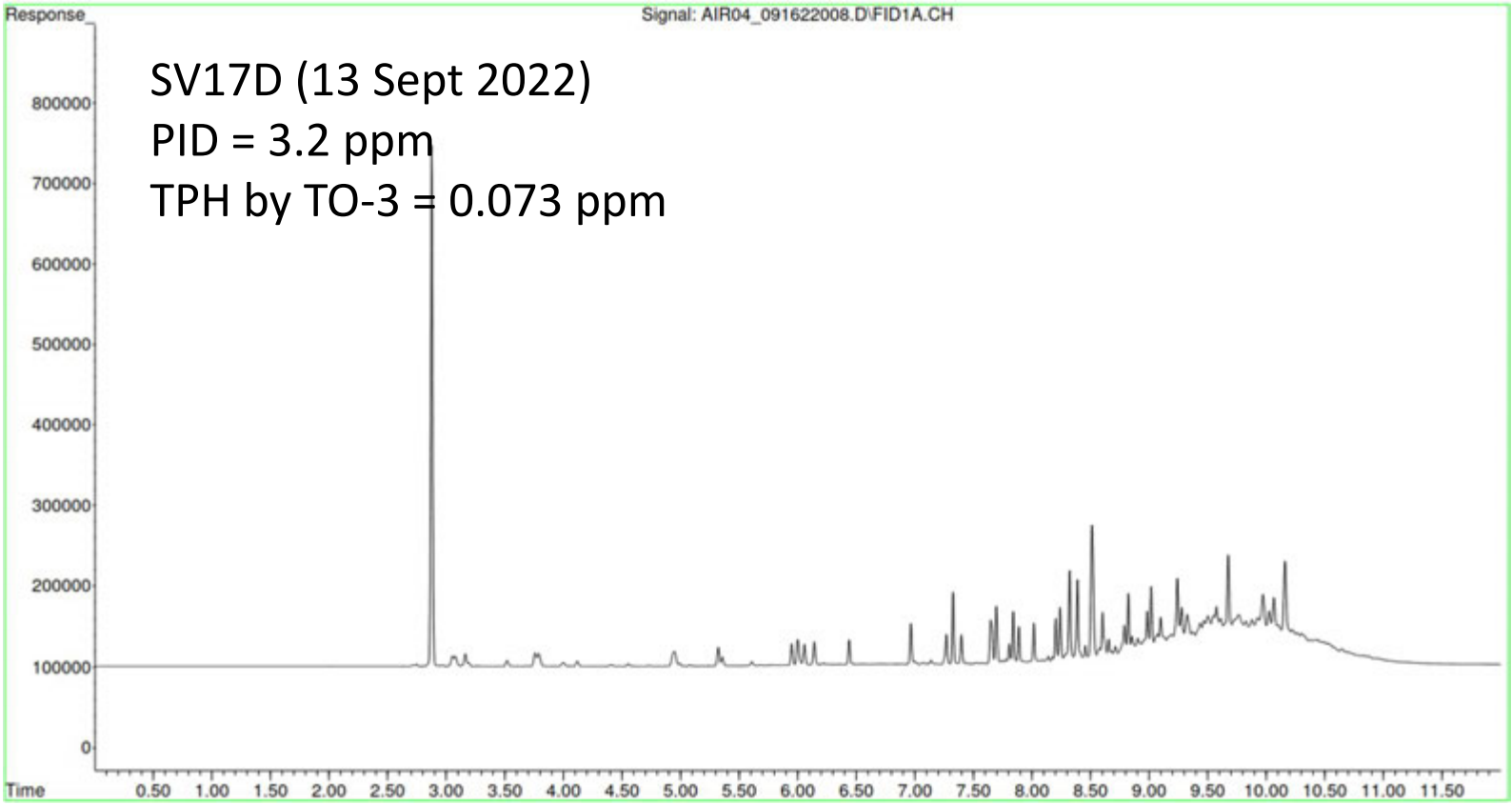
FID Chromatograms

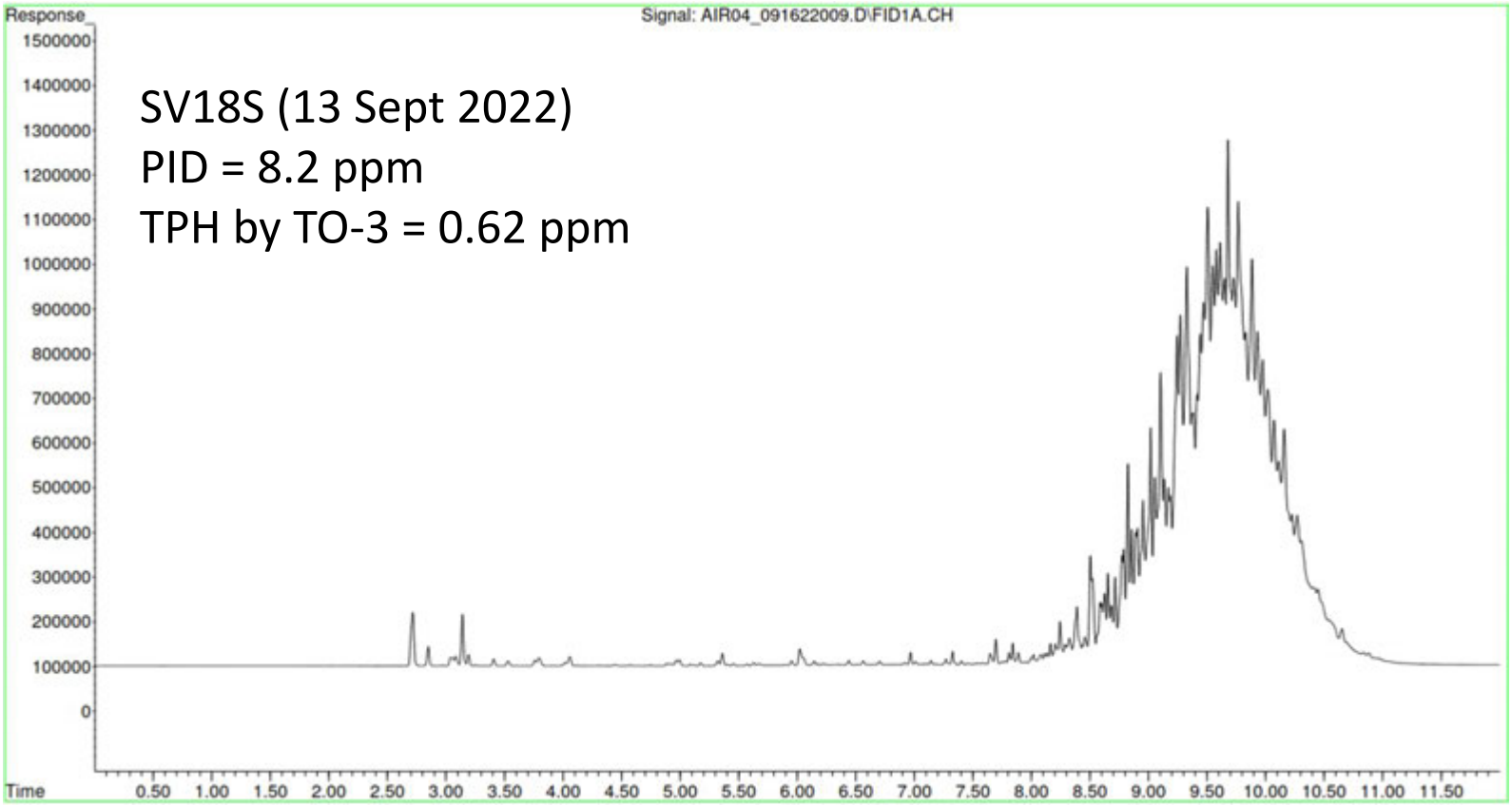

Response
Signal: AIR04_091622004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
130000
125000
120000
115000
110000
105000
100000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

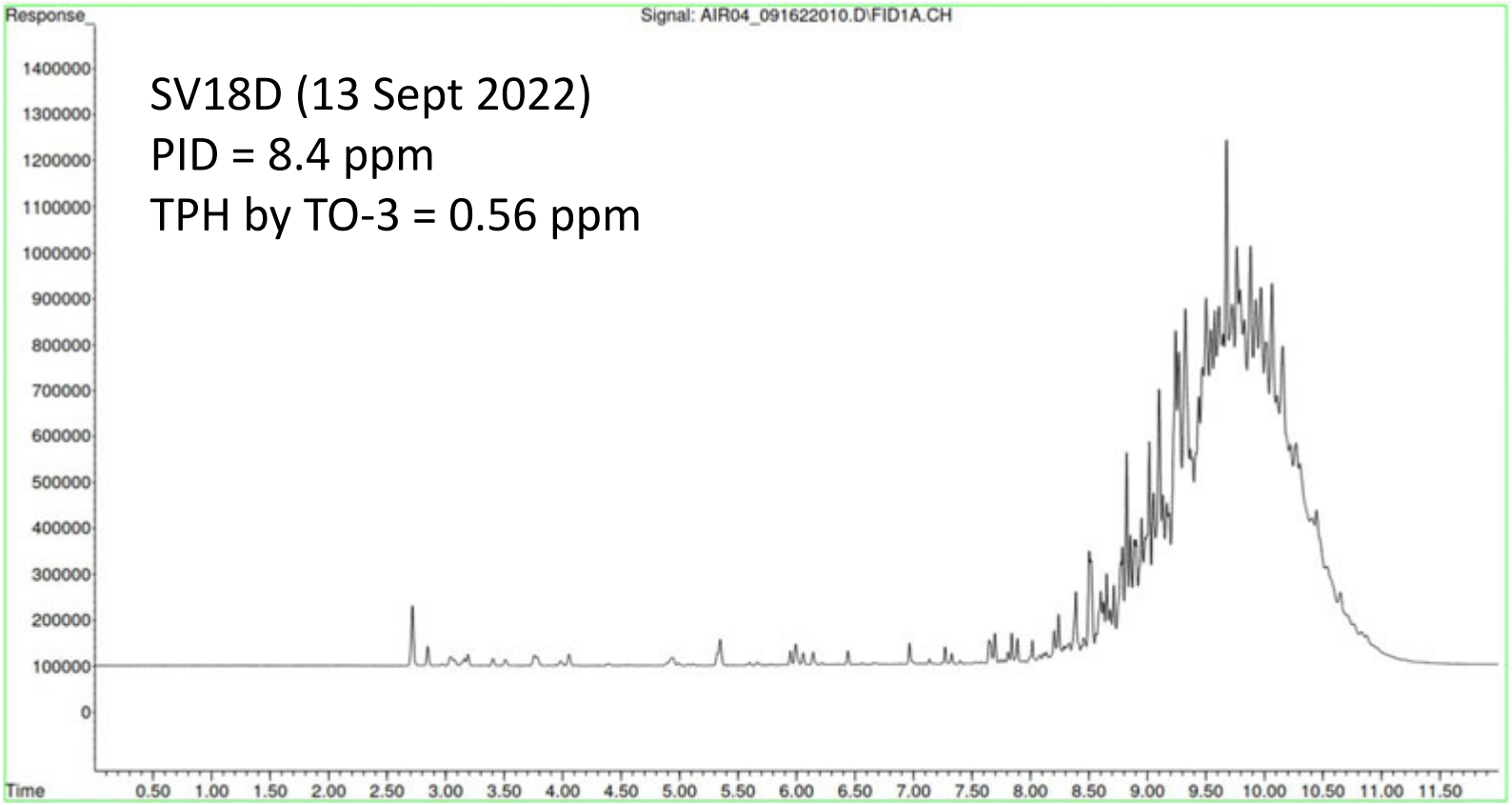

Response
Signal: AIR04_091622005.D\FID1A.CH
SV15S (13 Sept 2022)
PID = 0.38 ppm
TPH by TO-3 = <0.065 ppm
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

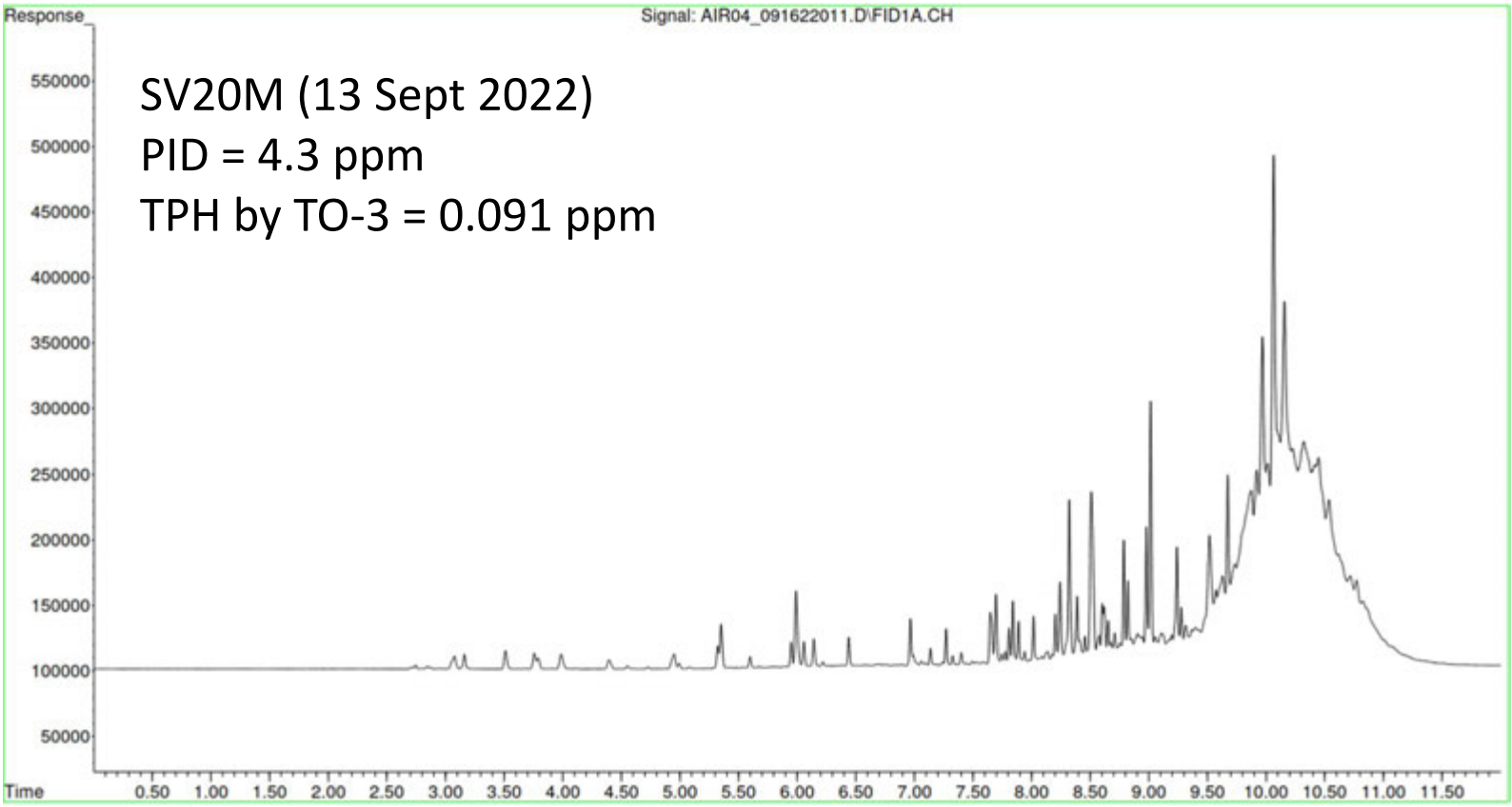

Response
Signal: AIR04_091622006.D\FID1A.CH
SV15D (13 Sept 2022)
PID = 0.36 ppm
TPH by TO-3 = < 0.045 ppm
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

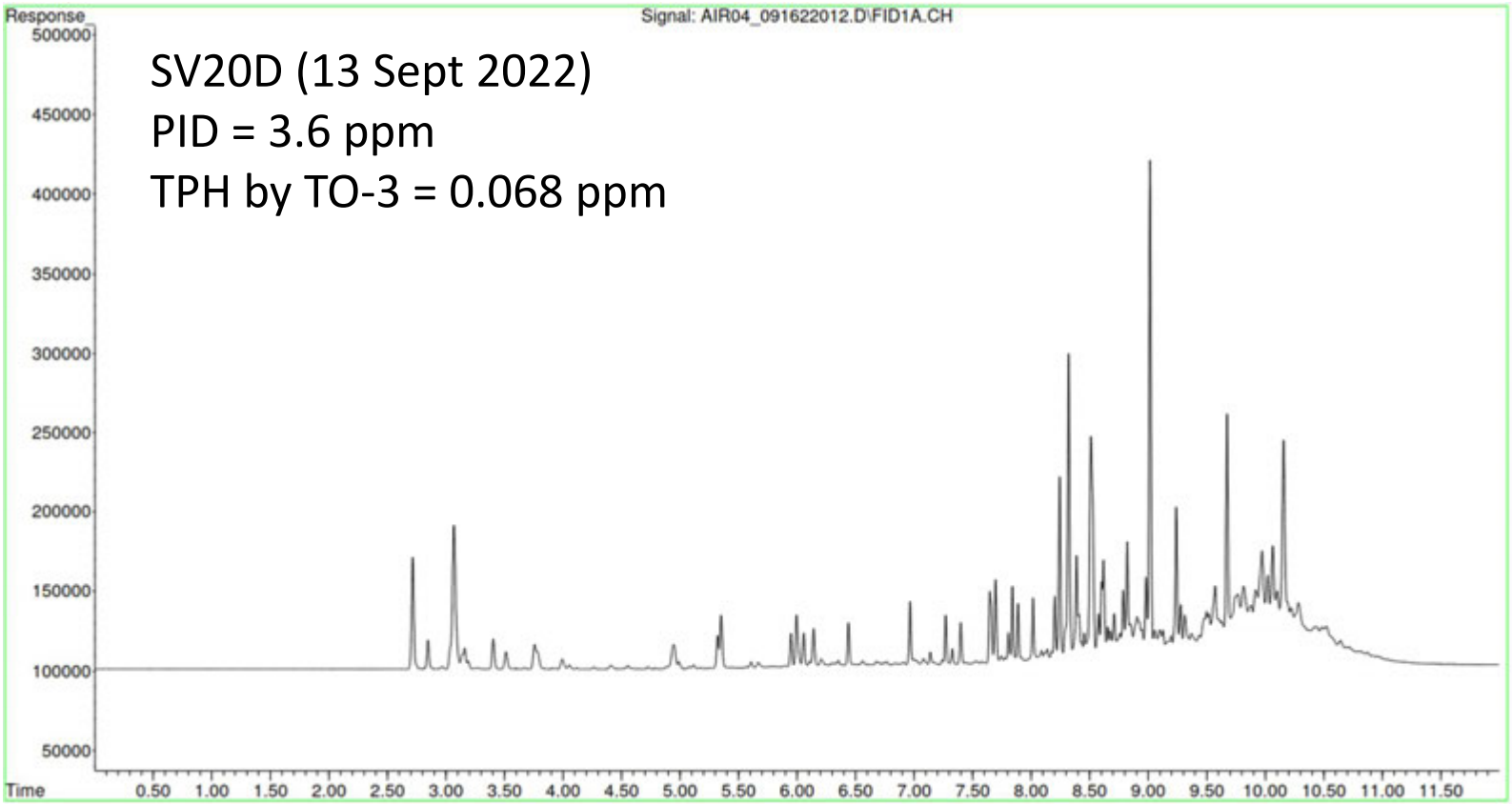

Response
Signal: AIR04_091622007.D\FID1A.CH
SV17S (13 Sept 2022)
PID = 2.4 ppm
TPH by TO-3 = 0.11 ppm
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_091622008.D\FID1A.CH
SV17D (13 Sept 2022)
PID = 3.2 ppm
TPH by TO-3 = 0.073 ppm
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_091622009.D\FID1A.CH
SV18S (13 Sept 2022)
PID = 8.2 ppm
TPH by TO-3 = 0.62 ppm
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Signal: AIR04_091622010.D\FID1A.CH
Response
Time
SV18D (13 Sept 2022)
PID = 8.4 ppm
TPH by TO-3 = 0.56 ppm


Signal: AIR04_091622011.D\FID1A.CH
Response
Time
SV20M (13 Sept 2022)
PID = 4.3 ppm
TPH by TO-3 = 0.091 ppm


Signal: AIR04_091622012.D\FID1A.CH
Response
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
SV20D (13 Sept 2022)
PID = 3.6 ppm
TPH by TO-3 = 0.068 ppm

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Appendix B – Groundwater Results

B.1 – Summary of Analytical Program for Groundwater and Drinking Water Samples Collected Between May 12, 2021 and November 4, 2022

B.2 – Summary of Free Product Gauging and Monitoring Well Headspace Measurements

B.2.1 – AOC Oil/Water Interface Measurements, January 2014 through October 2022

B.2.2 – Summary of NOI Free Product Gauging and Monitoring Well Headspace Measurements for the May 2021 Release from May 12 through November 24, 2021

B.2.3 – Summary of NOI Free Product Gauging and Monitoring Well Headspace Measurements from November 28, 2021 through November 4, 2022

B.3 – Groundwater Parameters from May 10, 2021 through November 4, 2022

B.4 – Summary of Groundwater Analytical Results through November 4, 2022

B.4.1 – GW Analytical Table_TPH and Fuel Related Compounds

B.4.2 – GW Analytical Table_BTEX_VOCS

B.4.3 – GW Analytical Table_SVOCs

B.4.4 – GW Analytical Table_PAH_SIMs

B.4.5 – TPH Charts

B.4.6 – Delineation Well Analytical Results

B.4.7 – Single-Event Analytical Results at DH43 and BWS2253J1

B.5 – Groundwater Monitoring Chromatograms through November 4, 2022

B.6 – NOI Groundwater Sampling Plan

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Appendix B.1 – Summary of Analytical Program for Groundwater and Drinking Water Samples Collected Between May 12, 2021 and November 4, 2022

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Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270 C/D + TIC	Phenol 8270D	2-(2-methoxyethoxy)-ethanol - Lab	2-(2-butoxyethoxy)-ethanol - Lab	TPH-D/O+SGT-8015C+3630/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/Cl/S2O4 - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/Br/Fl - 300.0	TOC	Total Ca,Fe,Pb,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved P+PO$_4^{3-}$	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW01R	ERH1363	96179	5/12/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1365	96188	5/13/2021	N	1	1				1		1																											APPL	Yes	Yes	Yes
RHMW03	ERH1367	96179	5/13/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1370	96269	5/19/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1372	96282	5/20/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1374	96282	5/20/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1376	96320	5/24/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1378	96320	5/24/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1380	96343	5/25/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1382	96363	5/26/2021	N	1	1				1		1																											APPL	Yes	Yes	Yes
RHMW02	ERH1384	96363	5/26/2021	N	1	1				1		1																											APPL	Yes	Yes	Yes
RHMW03	ERH1386	96363	5/26/2021	N	1	1				1		1																											APPL	Yes	Yes	Yes
RHMW01R	ERH1388	96410	5/28/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1390	96410	5/28/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1392	96410	5/28/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1394	96410	5/31/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1396	96410	5/31/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1398	96410	5/31/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1400	96438	6/2/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1402	96438	6/2/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1404	96438	6/2/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1430	96439	6/3/2021	N	1	1				1		1																											APPL	Yes	Yes	Yes
RHMW01R	ERH1406	96463	6/4/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1408	96463	6/4/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1410	96463	6/4/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1412	96472	6/7/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1414	96472	6/7/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1416	96472	6/7/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1418	96524	6/9/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1420	96524	6/9/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1422	96524	6/9/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1432	96537	6/10/2021	N	1	1				1		1																											APPL	Yes	Yes	Yes
RHMW01R	ERH1424	96548	6/11/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1426	96548	6/11/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1428	96548	6/11/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1440	96623	6/17/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1442	96623	6/17/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1444	96623	6/17/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1446	96623	6/17/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1448	96682	6/24/2021	N	1	1				1		1	1	1				1																					APPL	Yes	Yes	Yes
RHMW02	ERH1450	96682	6/24/2021	N	1	1				1		1	1	1				1																					APPL	Yes	Yes	Yes
RHMW03	ERH1452	96682	6/24/2021	N	1	1				1		1	1	1				1																					APPL	Yes	Yes	Yes
RHSF	ERH1454	96682	6/24/2021	N	1	1				1		1	1	1				1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1456	96701	6/30/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1458	96714	6/30/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1460	96714	6/30/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1529	96701	6/30/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1530	96714	6/30/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1531	96714	6/30/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1462	96714	7/1/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1464	96778	7/8/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1466	96778	7/8/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1468	96778	7/8/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1470	96778	7/8/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1533	96846	7/15/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1535	96846	7/15/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1537	96846	7/15/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1539	96846	7/15/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1541	96919	7/22/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1543	96919	7/22/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1545	96919	7/22/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1547	96919	7/22/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1549	97004	7/29/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1551	97004	7/29/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1553	97004	7/29/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1555	97004	7/29/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1576	97057	8/5/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1578	97057	8/5/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1580	97057	8/5/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1582	97057	8/5/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1584	97159	8/12/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1586	97159	8/12/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1588	97159	8/12/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1590	97159	8/12/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1592	97221	8/19/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1594	97221	8/19/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1596	97221	8/19/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1598	97221	8/19/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1617	97307	8/26/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1619	97307	8/26/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1621	97307	8/26/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1623	97307	8/26/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1624	97307	8/26/2021	FD	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1640	97378	9/1/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1642	97378	9/1/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1644	97378	9/1/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1646	97378	9/1/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1647	97378	9/1/2021	FD	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1653	97466	9/8/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1655	97466	9/8/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1657	97466	9/8/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1659	97466	9/8/2021	N	1	1				1		1	1					1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1660	97466	9/8/2021	FD	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1662	97541	9/15/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW02	ERH1664	97541	9/15/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW03	ERH1666	97541	9/15/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1668	97541	9/15/2021	N	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1669	97541	9/15/2021	FD	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1671	97642	9/22/2021	N						1								1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1671	B21092272	9/22/2021	N	1	1				1		1						1																					Energy	Yes	Yes	Yes
RHMW02	ERH1673	97642	9/22/2021	N						1								1																					APPL	Yes	Yes	Yes
RHMW02	ERH1673	B21092272	9/22/2021	N	1	1				1		1						1																					Energy	Yes	Yes	Yes
RHMW03	ERH1675	97642	9/22/2021	N						1								1																					APPL	Yes	Yes	Yes
RHMW03	ERH1675	B21092272	9/22/2021	N	1	1				1		1						1																					Energy	Yes	Yes	Yes
RHSF	ERH1677	97642	9/22/2021	N						1								1																					APPL	Yes	Yes	Yes
RHSF	ERH1677	B21092272	9/22/2021	N	1	1				1		1						1																					Energy	Yes	Yes	Yes
RHMW01R	ERH1678	97642	9/22/2021	FD	1	1				1		1						1																					APPL	Yes	Yes	Yes
RHSF	ERH1745	B21092273	9/23/2021	N						1								1																					Energy	Yes	Yes	Yes
RHSF	ERH1746	B21092273	9/23/2021	N						1								1																					Energy	Yes	Yes	Yes
RHSF	ERH1747	B21092370	9/24/2021	N						1								1																					Energy	Yes	Yes	Yes
RHSF	ERH1748	B21092370	9/25/2021	N						1								1																					Energy	Yes	Yes	Yes
RHSF	ERH1749	B21100022	9/26/2021	N						1								1																					Energy	Yes	Yes	Yes
RHSF	ERH1750	B21100022	9/27/2021	N						1								1																					Energy	Yes	Yes	Yes
RHSF	ERH1751	B21092660	9/28/2021	N						1								1																					Energy	Yes	Yes	Yes
RHMW01R	ERH1753	97741	9/29/2021	N						1								1																					APPL	Yes	Yes	Yes
RHMW01R	ERH1753	B21100125	9/29/2021	N	1	1				1		1						1												1									Energy	Yes	Yes	Yes
RHMW02	ERH1754	97741	9/29/2021	N						1								1																					APPL	Yes	Yes	Yes
RHMW02	ERH1754	B21100125	9/29/2021	N	1	1				1		1						1												1									Energy	Yes	Yes	Yes
RHMW03	ERH1755	97741	9/29/2021	N						1								1																					APPL	Yes	Yes	Yes
RHMW03	ERH1755	B21100125	9/29/2021	N	1	1				1		1						1												1									Energy	Yes	Yes	Yes
RHMW05	ERH1756	97741	9/29/2021	N						1								1																					APPL	Yes	Yes	Yes
RHMW05	ERH1756	B21100125	9/29/2021	N	1	1				1		1						1												1									Energy	Yes	Yes	Yes
RHMW2254-01	ERH1757	97717	9/29/2021	N						1								1																					APPL	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3510/3510	TPH-D/O+SGT-8015C+L-Lext+3520	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3N - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/ClO3/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO$_4$$^{3-}$	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW2254-01	ERH1757	B21100147	9/29/2021	N	1	1				1		1						1												1										Energy	Yes	Yes	Yes
RHSF	ERH1758	97717	9/29/2021	N						1								1																						APPL	Yes	Yes	Yes
RHSF	ERH1758	B21100147	9/29/2021	N	1	1				1		1						1												1										Energy	Yes	Yes	Yes
RHSF	ERH1759	97717	9/29/2021	FD						1								1																						APPL	Yes	Yes	Yes
RHSF	ERH1759	B21100147	9/29/2021	FD	1	1				1		1						1																						Energy	Yes	Yes	Yes
RHMW08	ERH1764	97748	9/30/2021	N						1								1																						APPL	Yes	Yes	Yes
RHMW08	ERH1764	B21100166	9/30/2021	N																										1										Energy	Yes	Yes	Yes
RHMW09	ERH1765	97748	9/30/2021	N						1								1																						APPL	Yes	Yes	Yes
RHMW09	ERH1765	B21100166	9/30/2021	N																										1										Energy	Yes	Yes	Yes
RHMW10	ERH1766	B21100166	9/30/2021	N						1								1																						APPL	Yes	Yes	Yes
RHMW10	ERH1766	97748	9/30/2021	N																										1										Energy	Yes	Yes	Yes
RHMW19	ERH1769	97748	9/30/2021	N						1								1																						APPL	Yes	Yes	Yes
RHMW19	ERH1769	B21100166	9/30/2021	N																										1										Energy	Yes	Yes	Yes
RHSF	ERH1775	B21100126	9/30/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW04	ERH1762	B21100166	10/1/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW04	ERH1762	97748	10/1/2021	N																										1										APPL	Yes	Yes	Yes
RHMW06	ERH1763	B21100166	10/1/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW06	ERH1763	97748	10/1/2021	N																										1										APPL	Yes	Yes	Yes
RHMW16	ERH1768	B21100166	10/1/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW16	ERH1768	97748	10/1/2021	N																										1										APPL	Yes	Yes	Yes
OWDFMW01	ERH1770	97748	10/1/2021	N						1								1																						APPL	Yes	Yes	Yes
OWDFMW01	ERH1770	B21100166	10/1/2021	N																										1										Energy	Yes	Yes	Yes
RHSF	ERH1776	B21100171	10/1/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1777	B21100756	10/2/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1778	B21100824	10/3/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW12A	ERH1767	B21100827	10/4/2021	N																										1										Energy	Yes	Yes	Yes
RHMW12A	ERH1767	97756	10/4/2021	N						1								1																						APPL	Yes	Yes	Yes
RHMW12A	ERH1772	B21100827	10/4/2021	FD						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1779	B21100827	10/4/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW14-03	ERH1771	B21100834	10/5/2021	N																										1										Energy	Yes	Yes	Yes
RHMW14-03	ERH1771	97769	10/5/2021	N						1								1																						APPL	Yes	Yes	Yes
RHSF	ERH1780	B21100828	10/5/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1781	B21100828	10/5/2021	FD						1								1																						Energy	Yes	Yes	Yes
RHMW01R	ERH1783	97781	10/6/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW01R	ERH1784	B21100806	10/6/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW02	ERH1786	97781	10/6/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW02	ERH1787	B21100806	10/6/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW03	ERH1789	97781	10/6/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW03	ERH1790	B21100806	10/6/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW05	ERH1792	97781	10/6/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW05	ERH1793	B21100806	10/6/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW2254-01	ERH1795	97782	10/6/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW2254-01	ERH1796	B21100806	10/6/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1798	97783	10/6/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHSF	ERH1799	B21100806	10/6/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1800	97783	10/6/2021	FD	1	1				1		1						1																						APPL	Yes	Yes	Yes
RHSF	ERH1801	B21100806	10/6/2021	FD						1								1																						Energy	Yes	Yes	Yes
RHMW01R	ERH1803	97850	10/13/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW01R	ERH1804	B21101306	10/13/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW02	ERH1806	97850	10/13/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW02	ERH1807	B21101306	10/13/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW03	ERH1809	97850	10/13/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW03	ERH1810	B21101306	10/13/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW05	ERH1812	97850	10/13/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW05	ERH1813	B21101306	10/13/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW2254-01	ERH1815	97833	10/13/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW2254-01	ERH1816	B21101306	10/13/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1818	97833	10/13/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHSF	ERH1819	B21101306	10/13/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1820	97833	10/13/2021	FD	1	1				1		1						1																						APPL	Yes	Yes	Yes
RHSF	ERH1821	B21101306	10/13/2021	FD						1								1																						Energy	Yes	Yes	Yes
RHMW05	ERH1824	97943	10/20/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW05	ERH1825	B21101919	10/20/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW02	ERH1827	97943	10/20/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW02	ERH1828	B21101919	10/20/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW03	ERH1830	97943	10/20/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW03	ERH1831	B21101919	10/20/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW01R	ERH1833	97943	10/20/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW01R	ERH1834	B21101919	10/20/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW2254-01	ERH1836	97923	10/20/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW2254-01	ERH1837	B21101919	10/20/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1839	97924	10/20/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHSF	ERH1840	B21101919	10/20/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1841	97924	10/20/2021	FD	1	1				1		1						1																						APPL	Yes	Yes	Yes
RHSF	ERH1842	B21101919	10/20/2021	FD						1								1																						Energy	Yes	Yes	Yes
RHMW2254-01	ERH1856	97985	10/26/2021	N	1	1						1																		1										APPL	Yes	Yes	Yes
RHMW2254-01	ERH1857	B21110057	10/26/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1859	97984	10/26/2021	N	1	1						1																		1										APPL	Yes	Yes	Yes
RHSF	ERH1860	B21110057	10/26/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1861	97984	10/26/2021	FD	1	1						1																												APPL	Yes	Yes	Yes
RHSF	ERH1862	B21110057	10/26/2021	FD						1								1																						Energy	Yes	Yes	Yes
RHMW01R	ERH1844	98005	10/27/2021	N	1	1						1																		1										APPL	Yes	Yes	Yes
RHMW01R	ERH1845	B21110057	10/27/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW02	ERH1847	98005	10/27/2021	N	1	1						1																		1										APPL	Yes	Yes	Yes
RHMW02	ERH1848	B21110057	10/27/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW03	ERH1850	98005	10/27/2021	N	1	1						1																		1										APPL	Yes	Yes	Yes
RHMW03	ERH1851	B21110057	10/27/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW05	ERH1853	98005	10/27/2021	N	1	1						1																		1										APPL	Yes	Yes	Yes
RHMW05	ERH1854	B21110057	10/27/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW01R	ERH1872	98096	11/3/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW01R	ERH1873	B21110712	11/3/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW02	ERH1875	98096	11/3/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW02	ERH1876	B21110712	11/3/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW03	ERH1878	98096	11/3/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW03	ERH1879	B21110712	11/3/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW05	ERH1881	98096	11/3/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW05	ERH1882	B21110712	11/3/2021	N						1								1																						Energy	Yes	Yes	Yes
RHMW2254-01	ERH1884	98097	11/3/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW2254-01	ERH1885	B21110712	11/3/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1887	98098	11/3/2021	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHSF	ERH1888	B21110712	11/3/2021	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1889	98098	11/3/2021	FD	1	1				1		1						1																						APPL	Yes	Yes	Yes
RHSF	ERH1890	B21110712	11/3/2021	FD						1								1																						Energy	Yes	Yes	Yes
RHMW01R	ERH1892	98214	11/10/21	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW01R	ERH1893	B21111298	11/10/21	N						1								1																						Energy	Yes	Yes	Yes
RHMW02	ERH1895	98214	11/10/21	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW02	ERH1896	B21111298	11/10/21	N						1								1																						Energy	Yes	Yes	Yes
RHMW03	ERH1898	98214	11/10/21	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW03	ERH1899	B21111298	11/10/21	N						1								1																						Energy	Yes	Yes	Yes
RHMW05	ERH1901	98214	11/10/21	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW05	ERH1902	B21111298	11/10/21	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1907	98212	11/10/21	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW2254-01	ERH1905	B21111298	11/10/21	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1909	98212	11/10/21	FD	1	1				1		1						1																						APPL	Yes	Yes	Yes
RHSF	ERH1908	B21111298	11/10/21	N						1								1																						Energy	Yes	Yes	Yes
RHMW2254-01	ERH1904	98213	11/10/21	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHSF	ERH1910	B21111298	11/10/21	FD						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1916	B21111298	11/10/21	N						1								1																						Energy	Yes	Yes	Yes
RHMW2254-01	ERH1930	98278	11/17/21	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW01R	ERH1919	B21111928	11/17/21	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1933	98285	11/17/21	N	1	1				1		1						1												1										APPL	Yes	Yes	Yes
RHMW02	ERH1922	B21111928	11/17/21	N						1								1																						Energy	Yes	Yes	Yes
RHSF	ERH1935	98285	11/17/21	FD	1	1				1		1						1																						APPL	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3510/3520	TPH-D/O+SGT-8015C+L-Lext+3520	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3N - 300.0	Nitrate+nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/Br/F1 - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4™	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW03	ERH1925	B21111928	11/17/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW01R	ERH1918	98299	11/17/21	N	1	1				1								1												1									APPL	Yes	Yes	Yes
RHMW05	ERH1928	B21111928	11/17/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW02	ERH1921	98299	11/17/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHMW2254-01	ERH1931	B21111928	11/17/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW03	ERH1924	98300	11/17/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHSF	ERH1934	B21111928	11/17/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW05	ERH1927	98300	11/17/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHSF	ERH1936	B21111928	11/17/21	FD						1								1																					Energy	Yes	Yes	Yes
RHSF	ERH1938	B21111928	11/17/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW2254-01	ERH1959	98336	11/24/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHSF	ERH1962	98336	11/24/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHSF	ERH1964	98336	11/24/21	FD	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHMW05	ERH1947	98337	11/24/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHMW02	ERH1950	98337	11/24/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHMW03	ERH1953	98337	11/24/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHMW01R	ERH1956	98337	11/24/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHMW05	ERH1948	B21112212	11/24/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW02	ERH1951	B21112212	11/24/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW03	ERH1954	B21112212	11/24/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW01R	ERH1957	B21112212	11/24/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW2254-01	ERH1960	B21112212	11/24/21	N						1								1																					Energy	Yes	Yes	Yes
RHSF	ERH1963	B21112212	11/24/21	N						1								1																					Energy	Yes	Yes	Yes
RHSF	ERH1965	B21112212	11/24/21	FD						1								1																					Energy	Yes	Yes	Yes
RHSF	ERH1966	B21112212	11/24/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW01R	ERH2002	98381	12/01/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHMW02	ERH2005	98381	12/01/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHMW03	ERH2008	98381	12/01/21	N	1	1				1		1						1												1									APPL	Yes	Yes	Yes
RHMW05	ERH2011	98381	12/01/21	N																										1									APPL	Yes	Yes	Yes
RHMW08	ERH2013	98381	12/01/21	N																										1									APPL	Yes	Yes	Yes
RHMW2254-01	ERH2018	98381	12/01/21	N	1		1			1		1						1																					APPL	Yes	Yes	Yes
OWDFMW01	ERH2020	98381	12/01/21	N	1		1			1		1						1																					APPL	Yes	Yes	Yes
RHMW01R	ERH2003	B21120381	12/01/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW02	ERH2006	B21120381	12/01/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW03	ERH2009	B21120381	12/01/21	N						1								1																					Energy	Yes	Yes	Yes
RHMW05	ERH2011	B21120381	12/01/21	N	1		1			1		1						1																					Energy	Yes	Yes	Yes
RHMW08	ERH2013	B21120381	12/01/21	N	1		1			1		1						1																					Energy	Yes	Yes	Yes
RHMW08	ERH2014	B21120381	12/01/21	FD	1		1			1		1						1																					Energy	Yes	Yes	Yes
RHMW2254-01	ERH2018	B21120381	12/01/21	N																										1									Energy	Yes	Yes	Yes
OWDFMW01	ERH2020	B21120381	12/01/21	N																										1									Energy	Yes	Yes	Yes
RHMW15-05	ERH2016	98382	12/02/21	N																										1									APPL	Yes	Yes	Yes
RHMW15-05	ERH2016	B21120396	12/02/21	N	1		1			1	1							1																					Energy	Yes	Yes	Yes
RHMW08	ERH2222	B21121001	12/8/2021	N	1		1			1	1	1						1												1									Energy	Yes	Yes	Yes
RHMW2254-01	ERH2226	B21121001	12/8/2021	N	1		1			1	1	1						1												1									Energy	Yes	Yes	Yes
OWDFMW01	ERH2228	B21121014	12/8/2021	N	1		1			1	1	1						1												1									Energy	Yes	Yes	Yes
RHMW03	ERH2217	B21121019	12/8/2021	N	1		1			1	1	1						1												1									Energy	Yes	Yes	Yes
RHMW05	ERH2219	B21121019	12/8/2021	N	1		1			1	1	1						1												1									Energy	Yes	Yes	Yes
RHMW05	ERH2220	B21121019	12/8/2021	FD	1		1			1	1	1						1																					Energy	Yes	Yes	Yes
RHMW01R	ERH2213	B21121020	12/8/2021	N	1		1			1	1	1						1												1									Energy	Yes	Yes	Yes
RHMW02	ERH2215	B21121020	12/8/2021	N	1		1			1	1	1						1												1									Energy	Yes	Yes	Yes
RHMW15-05	ERH2224	B21121012	12/9/2021	N			1			1	1	1						1												1									Energy	Yes	Yes	Yes
RHMW06	ERH2186	B21121402	12/13/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
OWDFMW01	ERH2197	B21121402	12/13/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW14-03	ERH2203	B21121402	12/13/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW12A	ERH2193	B21121622	12/14/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW16	ERH2195	B21121622	12/14/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW15-05	ERH2205	B21121622	12/14/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2175	B21121605	12/15/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2176	B21121605	12/15/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2206	B21121605	12/15/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
Sump Adit 3	ERH2230	B21121609	12/15/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW03	ERH2182	B21121611	12/15/2021	N			1			1	1							1	1	1	1									1			1		1	1	1		Energy	Yes	Yes	Yes
RHMW05	ERH2184	B21121613	12/15/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW13-05	ERH2201	B21121613	12/15/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW02	ERH2180	B21121616	12/15/2021	N			1			1	1							1	1	1	1									1			1		1	1	1		Energy	Yes	Yes	Yes
RHMW01R	ERH2178	B21121623	12/15/2021	N			1			1	1							1	1	1	1									1			1		1	1	1		Energy	Yes	Yes	Yes
RHMW08	ERH2188	B21121841	12/16/2021	N			1			1	1							1	1	1	1									1			1		1	1			Energy	Yes	Yes	Yes
RHMW08	ERH2189	B21121841	12/16/2021	FD			1			1	1							1																	1	1	1		Energy	Yes	Yes	Yes
RHMW09	ERH2191	B21121841	12/16/2021	N			1			1	1							1	1	1	1									1			1		1	1	1		Energy	Yes	Yes	Yes
RHMW11-05	ERH2199	B21121841	12/16/2021	N			1			1	1							1	1	1	1									1			1		1	1	1		Energy	Yes	Yes	Yes
RHMW14-03	ERH2259	B21121957	12/20/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW02	ERH2236	B21121959	12/20/2021	N			1			1	1							1	1	1	1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW01R	ERH2234	B21121961	12/20/2021	N			1			1	1							1	1	1	1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW03	ERH2238	B21121965	12/20/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
Sump Adit 3	ERH2269	B21121967	12/20/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW05	ERH2240	B21121981	12/20/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
Sump Adit 3	ERH2273	98566	12/21/2021	N											1																								APPL	Yes	Yes	Yes
Sump Adit 3	ERH2274	98566	12/21/2021	N											1																								APPL	Yes	Yes	Yes
RHMW2254-01	ERH2265	580-108700	12/21/2021	N												1																							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2267	580-108700	12/21/2021	N												1																							Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	ERH2261	B21121968	12/21/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW06	ERH2242	B21121977	12/21/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW01	ERH2253	B21121977	12/21/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2265	B21121981	12/21/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2266	B21121981	12/21/2021	FD			1			1	1							1																	1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2267	B21121981	12/21/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2265	L36258	12/21/2021	N																																		1	SGS AXYS	Yes	Yes	No
RHMW16	ERH2251	B21122077	12/22/2021	N			1			1	1							1	1	1	1									1		1			1	1			Energy	Yes	Yes	Yes
RHMW09	ERH2247	B21122088	12/22/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW13-05	ERH2257	B21122090	12/22/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW12A	ERH2249	B21122105	12/22/2021	N			1			1	1							1	1	1	1									1		1			1	1			Energy	Yes	Yes	Yes
RHMW08	ERH2244	B21121979	12/23/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW08	ERH2245	B21121979	12/23/2021	FD			1			1	1							1																	1	1			Energy	Yes	Yes	Yes
RHMW11-05	ERH2255	B21121979	12/23/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2287	680-209471-1	12/27/2021	N							1	1	1							1	1	1										1		1	1		1	1	Eurofins Savannah	Yes	Yes	Yes
RHMW2254-01	ERH2289	680-209471-1	12/27/2021	N							1	1	1							1	1	1										1		1	1		1	1	Eurofins Savannah	Yes	Yes	Yes
RHMW01R	ERH2278	B21122168	12/27/2021	N			1			1	1	1						1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW01R	ERH2279	B21122168	12/27/2021	FD							1	1	1							1																1	1		Energy	Yes	Yes	Yes
RHMW05	ERH2285	B21122168	12/27/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	No	Yes
RHMW03	ERH2283	B21122180	12/27/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW14-03	ERH2276	B21122188	12/27/2021	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW02	ERH2281	B21122190	12/27/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
Sump Adit 3	ERH2291	B21122204	12/27/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
OWDFMW01	ERH2293	B21122211	12/27/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW2254-01	ERH2287	B22010002	12/27/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW2254-01	ERH2288	B22010002	12/27/2021	FD							1	1	1							1																1	1		Energy	Yes	Yes	Yes
RHMW2254-01	ERH2289	B22010002	12/27/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW2254-01	ERH2287	L36271	12/27/2021	N																																		1	SGS AXYS	Yes	Yes	No
RHMW06	ERH2319	B21122198	12/28/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW15-05	ERH2297	B22010096	12/28/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW08	ERH2315	B22010120	12/28/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW13-05	ERH2307	B22010134	12/29/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW16	ERH2309	B22010141	12/29/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW12A	ERH2311	B22010142	12/29/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
OWDFMW04A	ERH2299	B22010143	12/30/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW11-05	ERH2313	B22010145	12/30/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
OWDFMW08A	ERH2305	B22010148	12/31/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
OWDFMW07A	ERH2303	B22010212	12/31/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
OWDFMW05A	ERH2301	B22010219	12/31/2021	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW09	ERH2317	B22010209	1/1/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW2254-01	ERH2332	580-108966	1/3/2022	N														1																					Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2334	580-108966	1/3/2022	N														1																					Eurofins Seattle	Yes	Yes	Yes
Sump Adit 3	ERH2336	B22010211	1/3/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270 C/D + TIC	Phenol 8270D	2-(2-methoxyethoxy)-ethanol - Lab	2-(2-butoxyethoxy)-ethanol - Lab	TPH-D/O+SGT-8015C+3630/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/Cl/SO4 - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/Br/Fl - 300.0	TOC	Total Ca,Fe,Pb,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved P+PO_4^{3-}	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW2254-01	ERH2332	B22010213	1/3/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW2254-01	ERH2333	B22010213	1/3/2022	FD							1	1	1							1																	1	1	Energy	Yes	Yes	Yes
RHMW2254-01	ERH2334	B22010213	1/3/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW14-03	ERH2321	B22010214	1/3/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW02	ERH2326	B22010260	1/3/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW03	ERH2328	B22010262	1/3/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW01R	ERH2323	B22010366	1/3/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW01R	ERH2324	B22010366	1/3/2022	FD							1	1	1							1																	1	1	Energy	Yes	Yes	Yes
RHMW05	ERH2330	B22010369	1/3/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW06	ERH2364	B22010338	1/4/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW08	ERH2360	B22010361	1/4/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW15-05	ERH2342	B22010403	1/4/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
OWDFMW01	ERH2338	B22010405	1/4/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW04	ERH2368	B22010406	1/4/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW12A	ERH2356	B22010409	1/5/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW16	ERH2354	B22010410	1/5/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW13-05	ERH2352	B22010411	1/5/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
AFFF Line	ERH2370	B22010412	1/6/2022	N			1			1								1												—								—	Energy	Yes	Yes	No
OWDFMW05A	ERH2346	B22010413	1/6/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
OWDFMW08A	ERH2350	B22010507	1/6/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
OWDFMW04A	ERH2344	B22010625	1/6/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
OWDFMW07A	ERH2348	B22010628	1/6/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
RHMW11-05	ERH2358	B22010629	1/6/2022	N							1	1	1							1	1	1			1							1		1	1		1	1	Energy	Yes	Yes	Yes
AFFF Line	ERH2371	L2200971	1/6/2022	N																										—								—	Alpha Analytical	Yes	Yes	No
RHMW19	ERH2366	B22010626	1/7/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW09	ERH2362	B22010633	1/7/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2386	580-109200	1/10/2022	N												1																							Eurofins Seattle	Yes	Yes	No
RHMW2254-01	ERH2390	580-109200	1/10/2022	N												1																							Eurofins Seattle	Yes	Yes	No
RHMW14-03	ERH2374	B22010637	1/10/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2389	B22010641	1/10/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2385	B22010643	1/10/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2387	B22010643	1/10/2022	FD			1			1	1							1																	1	1			Energy	Yes	Yes	Yes
RHMW03	ERH2381	B22010756	1/10/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW02	ERH2379	B22010757	1/10/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW01R	ERH2376	B22010758	1/10/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW01R	ERH2377	B22010758	1/10/2022	FD			1			1	1							1																	1	1			Energy	Yes	Yes	Yes
RHMW05	ERH2383	B22010759	1/10/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW01	ERH2394	B22010750	1/11/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
Sump Adit 3	ERH2392	B22010751	1/11/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW08	ERH2414	B22010753	1/11/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW06	ERH2418	B22010754	1/11/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW15-05	ERH2396	B22010755	1/11/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW19	ERH2420	B22010974	1/11/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW12A	ERH2410	B22010971	1/12/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW16	ERH2408	B22010972	1/12/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW13-05	ERH2406	B22010973	1/12/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW09	ERH2416	B22010975	1/12/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW11-05	ERH2412	B22010976	1/13/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW05A	ERH2400	B22010977	1/13/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW04A	ERH2398	B22010978	1/13/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW07A	ERH2402	B22010978	1/13/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW08A	ERH2404	B22010980	1/13/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW04	ERH2422	B22011129	1/14/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW04A	ERH2448	B22011128	1/16/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW15-05	ERH2446	B22011124	1/16/2022	N			1																					1											Energy	Yes	Yes	Yes
RHMW04	ERH2472	B22011125	1/16/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW05A	ERH2450	B22011126	1/16/2022	N			1																					1											Energy	Yes	Yes	Yes
OWDFMW08A	ERH2454	B22011127	1/16/2022	N			1																					1											Energy	Yes	Yes	Yes
RHMW16	ERH2458	B22011130	1/17/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW12A	ERH2460	B22011131	1/17/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW09	ERH2466	B22011132	1/17/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW01	ERH2444	B22011133	1/17/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW01R	ERH2426	B22011134	1/17/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW01R	ERH2427	B22011134	1/17/2022	FD			1			1	1							1		1															1	1			Energy	Yes	Yes	Yes
RHMW05	ERH2433	B22011136	1/17/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW02	ERH2429	B22011137	1/17/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW14-03	ERH2424	B22011228	1/18/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW08	ERH2464	B22011214	1/18/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW06	ERH2468	B22011227	1/18/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW13-05	ERH2456	B22011446	1/19/2022	N			1				1							1	1		1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW19	ERH2470	B22011446	1/19/2022	N			1																					1											Energy	Yes	Yes	Yes
RHMW2254-01	ERH2436	580-109524-1	1/20/2022	N			1									1																							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2440	580-109524-1	1/20/2022	N			1									1																							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2435	B22011446	1/20/2022	N			1																		1	1	1	1	1										Energy	Yes	Yes	Yes
RHMW2254-01	ERH2437	B22011446	1/20/2022	FD			1											1																	1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2439	B22011446	1/20/2022	N			1																		1	1	1	1	1										Energy	Yes	Yes	Yes
Sump Adit 3	ERH2442	B22011446	1/20/2022	N			1																		1	1	1	1	1										Energy	Yes	Yes	Yes
OWDFMW07A	ERH2452	B22011446	1/20/2022	N			1																		1	1	1	1	1										Energy	Yes	Yes	Yes
RHMW11-05	ERH2462	B22011446	1/20/2022	N			1			1								1	1											1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW2254-01	ERH2487	580-109641-1	1/24/2022	N												1																							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2491	580-109641-1	1/24/2022	N												1																							Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH2474	B22011592	1/24/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW01R	ERH2475	B22011592	1/24/2022	FD			1			1	1							1		1															1	1			Energy	Yes	Yes	Yes
OWDFMW07A	ERH2481	B22011592	1/24/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW08A	ERH2483	B22011592	1/24/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2486	B22011592	1/24/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2490	B22011592	1/24/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
Sump Adit 3	ERH2493	B22011592	1/24/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW19	ERH2478	B22011717	1/25/2022	N			1			1	1							1	1	1	1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW07A	ERH2507	B22020415	2/2/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
OWDFMW08A	ERH2509	B22020415	2/2/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
OWDFMW08A	ERH2510	B22020415	2/2/2022	FD			1											1																	1	1	1		Energy	Yes	Yes	Yes
RHMW19	ERH2512	B22020415	2/2/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW2254-01	ERH2517	580-109975-1	2/3/2022	N												1																							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2520	580-109975-1	2/3/2022	N												1																							Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH2514	B22020415	2/3/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW2254-01	ERH2516	B22020415	2/3/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW2254-01	ERH2519	B22020415	2/3/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
Sump Adit 3	ERH2522	B22020415	2/3/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
OWDFMW07A	ERH2524	B22020962	2/9/2022	N			1											1	1		1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW08A	ERH2526	B22020962	2/9/2022	N			1											1	1		1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW08A	ERH2527	B22020962	2/9/2022	FD			1											1																	1	1			Energy	Yes	Yes	Yes
RHMW19	ERH2529	B22020962	2/9/2022	N			1											1	1		1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW01R	ERH2531	B22020962	2/10/2022	N			1											1	1		1									1		1	1		1	1			Energy	Yes	Yes	Yes
RHMW2254-01	ERH2533	B22020962	2/10/2022	N			1											1	1		1									1		1	1		1	1			Energy	Yes	Yes	Yes
Sump Adit 3	ERH2537	B22020962	2/10/2022	N			1											1	1		1									1		1	1		1	1			Energy	Yes	Yes	Yes
OWDFMW08A	ERH2544	B22021435	2/16/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
OWDFMW08A	ERH2545	B22021435	2/16/2022	FD			1											1												1					1	1	1		Energy	Yes	Yes	Yes
OWDFMW07A	ERH2542	B22021435	2/17/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW19	ERH2547	B22021435	2/17/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW01R	ERH2549	B22021435	2/17/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW2254-01	ERH2551	B22021435	2/17/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW2254-01	ERH2553	B22021435	2/17/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
Sump Adit 3	ERH2555	B22021435	2/17/2022	N			1											1	1		1									1		1	1		1	1	1		Energy	Yes	Yes	Yes
RHMW2254-01	ERH2565	B22021627	2/22/2022	N			1											1												1								—	Energy	Yes	Yes	Yes
RHMW2254-01	ERH2567	B22021627	2/22/2022	N			1											1	1		1									1		1	1		1	1		—	Energy	Yes	Yes	Yes
Sump Adit 3	ERH2569	B22021627	2/22/2022	N			1											1	1		1									1		1	1			1		—	Energy	Yes	Yes	Yes
OWDFMW07A	ERH2558	B22021763	2/23/2022	N			1											1												1		1	1		1	1		—	Energy	Yes	Yes	Yes
OWDFMW08A	ERH2560	B22021763	2/23/2022	N			1											1	1		1									1		1	1		1	1		—	Energy	Yes	Yes	Yes
OWDFMW08A	ERH2561	B22021763	2/23/2022	FD			1																												1			—	Energy	Yes	Yes	Yes
RHMW01R	ERH2563	B22021763	2/23/2022	N			1											1												1		1	1		1	1		—	Energy	Yes	Yes	Yes
RHMW19	ERH2571	B22021763	2/24/2022	N			1											1	1		1									1		1	1			1		—	Energy	Yes	Yes	Yes
RHMW06	ERH2647	580-110890-1	2/28/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3520/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3/N - 300.0	Nitrate+nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/Br/F1 - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW08	ERH2648	580-110975-1	2/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	ERH2649	580-110975-1	2/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH2650	580-110975-1	2/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH2651	580-110975-1	2/28/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16A	ERH2574	B22030244	2/28/2022	N			1											1	1		1								1		1	1			1			—	Energy	Yes	Yes	Yes
RHMW04	ERH2578	B22030244	2/28/2022	N			1											1	1		1								1		1	1		1				—	Energy	Yes	Yes	Yes
RHMW06	ERH2582	B22030244	2/28/2022	N			1											1	1		1								1		1	1		1				—	Energy	Yes	Yes	Yes
RHMW08	ERH2584	B22030244	2/28/2022	N														1	1		1								1		1	1		1				—	Energy	Yes	Yes	Yes
OWDFMW07A	ERH2605	B22030244	2/28/2022	N			1											1											1		1	1						—	Energy	Yes	Yes	Yes
OWDFMW08A	ERH2607	B22030244	2/28/2022	N			1											1	1		1								1		1	1		1				—	Energy	Yes	Yes	Yes
OWDFMW08A	ERH2608	B22030244	2/28/2022	FD			1											1																1				—	Energy	Yes	Yes	Yes
RHMW14-03	ERH2652	580-110975-1	3/1/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH2653	580-110975-1	3/1/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	ERH2654	580-110975-1	3/1/2022	N																																1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	ERH2655	580-110975-1	3/1/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW07	ERH2673	580-110975-1	3/1/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	ERH2588	B22030244	3/1/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW14-03	ERH2592	B22030244	3/1/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW16	ERH2596	B22030244	3/1/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW07	ERH2624	B22030244	3/1/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW02	ERH2657	580-111029	3/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	ERH2658	580-111029	3/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	ERH2659	580-111032	3/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH2660	580-111032	3/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH2661	580-111032	3/2/2022	FD																																		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	ERH2662	580-111032	3/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	ERH2663	580-111032	3/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	ERH2664	580-111032	3/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
Sump Adit 3	ERH2667	580-111032	3/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	ERH2675	580-111032	3/2/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	ERH2677	580-111032	3/2/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
HDMW2253-03	ERH2680	580-111058-1	3/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	ERH2576	B22030433	3/2/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW05	ERH2580	B22030433	3/2/2022	N														1																						Energy	Yes	Yes	Yes
RHMW13-05	ERH2590	B22030433	3/2/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW01R	ERH2602	B22030433	3/2/2022	N			1											1											1		1	1		1					Energy	Yes	Yes	Yes
RHMW01R	ERH2603	B22030433	3/2/2022	FD			1											1																1					Energy	Yes	Yes	Yes
Sump Adit 3	ERH2614	B22030433	3/2/2022	N			1											1	1		1										1	1		1					Energy	Yes	Yes	Yes
OWDFMW05A	ERH2618	B22030433	3/2/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
OWDFMW04A	ERH2620	B22030433	3/2/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW02	ERH2622	B22030433	3/2/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
OWDFMW05A	ERH2674	B22030433	3/2/2022	FD			1											1																1					Energy	Yes	Yes	Yes
OWDFMW04A	ERH2676	B22030433	3/2/2022	FD			1											1																1					Energy	Yes	Yes	Yes
RHMW2254-01	ERH2666	580-111018-1	3/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2665	580-111019-1	3/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	ERH2656	580-111028-1	3/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	ERH2668	580-111028-1	3/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	ERH2669	580-111028-1	3/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2610	B22030433	3/3/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW2254-01	ERH2612	B22030433	3/3/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW09	ERH2586	B22030502	3/3/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW11-05	ERH2600	B22030502	3/3/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
OWDFMW01	ERH2616	B22030502	3/3/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW15-05	ERH2671	580-111058-1	3/4/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	ERH2670	580-111087	3/4/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW10	ERH2672	580-111087	3/4/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	ERH2594	B22030502	3/4/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW19	ERH2598	B22030502	3/4/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW10	ERH2627	B22030502	3/4/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
HDMW2253-03	ERH2630	B22030502	3/4/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW15-05	ERH2683	580-111107	3/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH2699	580-111107	3/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH2700	580-111107	3/7/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	ERH2695	580-111174	3/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	ERH2733	580-111174	3/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	ERH2741	580-111174	3/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	ERH2682	B22030586	3/7/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
OWDFMW08A	ERH2697	B22030586	3/7/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
OWDFMW08A	ERH2698	B22030586	3/7/2022	FD														1																1					Energy	Yes	Yes	Yes
OWDFMW05A	ERH2694	B22030703	3/7/2022	N														1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW06	ERH2732	B22030703	3/7/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW04	ERH2740	B22030703	3/7/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW14-03	ERH2703	580-111174	3/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH2706	580-111174	3/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	ERH2709	580-111174	3/8/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW03	ERH2713	580-111174	3/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	ERH2716	580-111174	3/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH2720	580-111174	3/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH2721	580-111174	3/8/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	ERH2724	580-111174	3/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	ERH2702	B22030703	3/8/2022	N																																		Energy	Yes	Yes	Yes
RHMW16	ERH2705	B22030703	3/8/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW12A	ERH2708	B22030703	3/8/2022	N																																		Energy	Yes	Yes	Yes
RHMW03	ERH2712	B22030703	3/8/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW02	ERH2715	B22030703	3/8/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW01R	ERH2718	B22030703	3/8/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW01R	ERH2719	B22030703	3/8/2022	FD			1											1																1					Energy	Yes	Yes	Yes
RHMW05	ERH2723	B22030703	3/8/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
OWDFMW04A	ERH2749	580-111249-1	3/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	ERH2750	580-111249-1	3/9/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	ERH2753	580-111249-1	3/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	ERH2756	580-111249-1	3/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
Sump Adit 3	ERH2763	580-111249-1	3/9/2022	N			1											1	1		1								1		1	1		1					Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	ERH2771	580-111249-1	3/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	ERH2761	580-111249-1	3/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2686	580-111290	3/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2689	580-111290	3/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
Sump Adit 3	ERH2764	580-111290	3/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2685	B22030912	3/9/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW2254-01	ERH2688	B22030912	3/9/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
OWDFMW04A	ERH2747	B22030912	3/9/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
OWDFMW04A	ERH2748	B22030912	3/9/2022	FD			1											1																1					Energy	Yes	Yes	Yes
OWDFMW07A	ERH2752	B22030912	3/9/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW08	ERH2755	B22030912	3/9/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW19	ERH2760	B22030912	3/9/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW11-05	ERH2770	B22030912	3/9/2022	N																																		Energy	Yes	Yes	Yes
OWDFMW01	ERH2692	580-111294	3/10/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	ERH2743	580-111294	3/10/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	ERH2691	B22030912	3/10/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW13-05	ERH2758	B22030912	3/10/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW19	ERH2778	580-111384	3/14/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	ERH2781	580-111384	3/14/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	ERH2774	B22031080	3/14/2022	N			1											1	1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW19	ERH2777	B22031229	3/14/2022	N			1												1		1								1		1	1		1					Energy	Yes	Yes	Yes
RHMW04	ERH2780	B22031229	3/14/2022	N			1											1	1		1								1		1	1							Energy	Yes	Yes	Yes
RHMW15-05	ERH2775	580-111436-1	3/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	ERH2800	580-111436-1	3/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	ERH2803	580-111436-1	3/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	ERH2807	580-111436-1	3/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH2814	580-111436-1	3/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH2815	580-111436-1	3/15/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	ERH2818	580-111436-1	3/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH2821	580-111436-1	3/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3510/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/DS20A - 300.0	Nitrate+nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrIFI - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
OWDFMW01	ERH2794	580-111501	3/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	ERH2810	580-111501	3/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	ERH2799	B22031229	3/15/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW01R	ERH2812	B22031229	3/15/2022	N			1											1	1		1													1				Energy	Yes	Yes	Yes
RHMW01R	ERH2813	B22031229	3/15/2022	FD			1																											1				Energy	Yes	Yes	Yes
RHMW05	ERH2817	B22031229	3/15/2022	N			1											1	1		1								1		1	1						Energy	Yes	Yes	Yes
RHMW16	ERH2820	B22031229	3/15/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	ERH2802	B22031463	3/15/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW03	ERH2806	B22031463	3/15/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW02	ERH2809	B22031463	3/15/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	ERH2793	B22031470	3/15/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	ERH2785	580-111501	3/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	ERH2786	580-111501	3/16/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	ERH2824	580-111501	3/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	ERH2827	580-111501	3/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	ERH2834	580-111501	3/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	ERH2837	580-111501	3/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	ERH2842	580-111501	3/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	ERH2783	B22031470	3/16/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	ERH2784	B22031470	3/16/2022	FD			1																								1			1				Energy	Yes	Yes	Yes
OWDFMW07A	ERH2823	B22031470	3/16/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW08	ERH2826	B22031470	3/16/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	ERH2833	B22031470	3/16/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW13-05	ERH2836	B22031470	3/16/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW09	ERH2841	B22031470	3/16/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW05A	ERH2831	580-111565	3/17/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2845	580-111565	3/17/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2848	580-111565	3/17/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
SUMP ADIT 3	ERH2851	580-111565	3/17/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	ERH2854	580-111565	3/17/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH2790	580-111589	3/17/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH2791	580-111589	3/17/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH2788	B22031470	3/17/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW08A	ERH2789	B22031470	3/17/2022	FD			1											1																1				Energy	Yes	Yes	Yes
OWDFMW05A	ERH2830	B22031470	3/17/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	ERH2844	B22031470	3/17/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	ERH2847	B22031470	3/17/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
SUMP ADIT 3	ERH2850	B22031470	3/17/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	ERH2853	B22031470	3/17/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	ERH2857	580-111736	3/21/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	ERH2863	580-111736	3/21/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	ERH2866	580-111736	3/21/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	ERH2860	580-111746	3/21/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	ERH2856	B22031699	3/21/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW19	ERH2860	B22031699	3/21/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW09	ERH2862	B22031699	3/21/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	ERH2859	B22031740	3/21/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW03	ERH2878	580-111746	3/22/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	ERH2881	580-111746	3/22/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH2885	580-111746	3/22/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH2886	580-111746	3/22/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	ERH2890	580-111746	3/22/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	ERH2870	580-111790	3/22/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	ERH2874	580-111790	3/22/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	ERH2875	580-111790	3/22/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH2894	580-111790	3/22/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH2895	580-111790	3/22/2022	FD																																		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	ERH2898	580-111790	3/22/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	ERH2930	580-111790	3/22/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW03	ERH2877	B22031740	3/22/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW02	ERH2880	B22031740	3/22/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW01R	ERH2883	B22031740	3/22/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW01R	ERH2884	B22031740	3/22/2022	FD			1											1																1				Energy	Yes	Yes	Yes
RHMW05	ERH2889	B22031740	3/22/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	ERH2869	B22032035	3/22/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	ERH2872	B22032035	3/22/2022	N			1											1	1		1								1	1		1		1				Energy	Yes	Yes	Yes
RHMW12A	ERH2873	B22032035	3/22/2022	FD			1											1																1				Energy	Yes	Yes	Yes
RHMW16	ERH2892	B22032035	3/22/2022	N			1											1		1	1								1					1				Energy	Yes	Yes	Yes
RHMW16	ERH2893	B22032035	3/22/2022	FD			1											1																1				Energy	Yes	Yes	Yes
OWDFMW05A	ERH2897	B22032035	3/22/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
RHMW11-05	ERH2929	B22032035	3/22/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
RHMW08	ERH2904	580-111790	3/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	ERH2907	580-111790	3/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	ERH2918	580-111790	3/23/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	ERH2901	580-111849	3/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	ERH2910	580-111849	3/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	ERH2915	580-111849	3/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	ERH2900	B22032035	3/23/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
RHMW08	ERH2903	B22032035	3/23/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
RHMW06	ERH2906	B22032035	3/23/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
RHMW13-05	ERH2909	B22032035	3/23/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	ERH2914	B22032035	3/23/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
RHMW04	ERH2917	B22032035	3/23/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
RHMW2254-01	ERH2921	580-111849	3/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2924	580-111849	3/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
SUMP ADIT 3	ERH2927	580-111849	3/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH2933	580-111870	3/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2920	B22032035	3/24/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
RHMW2254-01	ERH2923	B22032035	3/24/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
SUMP ADIT 3	ERH2926	B22032035	3/24/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
OWDFMW08A	ERH2932	B22032057	3/24/2022	N																																		Energy	Yes	Yes	Yes
RHMW09	ERH2956	580-111937	3/28/2022	N																											1	1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	ERH2960	580-111937	3/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	ERH2950	580-111971	3/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	ERH2953	580-111971	3/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	ERH2963	580-111971	3/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	ERH2955	B22032266	3/28/2022	N			1											1	1		1								1					1				Energy	Yes	Yes	Yes
RHMW19	ERH2958	B22032266	3/28/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	ERH2949	B22032306	3/28/2022	N			1										1		1		1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	ERH2952	B22032306	3/28/2022	N			1										1		1		1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW05A	ERH2962	B22032306	3/28/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	ERH2966	580-111971	3/29/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
SUMP ADIT 3	ERH2979	580-111971	3/29/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2982	580-111971	3/29/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH2985	580-111971	3/29/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	ERH2965	B22032306	3/29/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
SUMP ADIT 3	ERH2978	B22032306	3/29/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	ERH2981	B22032306	3/29/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	ERH2984	B22032306	3/29/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	ERH2968	B22040049	3/29/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	ERH2969	B22040049	3/29/2022	FD			1											1																1				Energy	Yes	Yes	Yes
RHMW12A	ERH2970	580-112019	3/30/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	ERH2971	580-112019	3/30/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	ERH2988	580-112019	3/30/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	ERH2991	580-112019	3/30/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	ERH2994	580-112019	3/30/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	ERH2999	580-112019	3/30/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	ERH3002	580-112019	3/30/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW08	ERH2987	B22040049	3/30/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	ERH2990	B22040049	3/30/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW13-05	ERH2993	B22040049	3/30/2022	N			1											1	1		1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	ERH2998	B22040049	3/30/2022	N			1											1	1		1										1	1		1				Energy	Yes	Yes	Yes
RHMW04	ERH3001	B22040049	3/30/2022	N			1											1	1		1										1	1		1				Energy	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3520/3510	TPH-D/O+SGT-8015C+L-Lext+3520	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3/N - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW11-05	ERH3005	580-112064	3/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH3008	580-112064	3/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	ERH3013	580-112064	3/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	ERH3016	580-112064	3/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	ERH3019	580-112064	3/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH3023	580-112064	3/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH3024	580-112064	3/31/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	ERH3028	580-112064	3/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	ERH3004	B22040049	3/31/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW08A	ERH3007	B22040049	3/31/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW03	ERH3012	B22040049	3/31/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW02	ERH3015	B22040049	3/31/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW07A	ERH3018	B22040049	3/31/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW01R	ERH3021	B22040049	3/31/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW01R	ERH3022	B22040049	3/31/2022	FD			1											1																1					Energy	Yes	Yes	Yes
RHMW05	ERH3027	B22040049	3/31/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW16	ERH2975	580-112112	4/1/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH2976	580-112112	4/1/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH2973	B22040074	4/1/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW16	ERH2974	B22040074	4/1/2022	FD			1											1																1					Energy	Yes	Yes	Yes
RHMW16	ERH3062	580-112193	4/4/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH3063	580-112193	4/4/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	ERH3081	580-112193	4/4/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	ERH3084	580-112193	4/4/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	ERH3035	580-112254-1	4/4/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	ERH3057	580-112254-1	4/4/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	ERH3058	580-112254-1	4/4/2022	FD																																		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH3060	B22040278	4/4/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW16	ERH3061	B22040278	4/4/2022	FD			1											1																1					Energy	Yes	Yes	Yes
RHMW08	ERH3080	B22040278	4/4/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW06	ERH3083	B22040278	4/4/2022	N																															1	1		Energy	Yes	Yes	Yes
RHMW15-05	ERH3034	B22040593	4/4/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW12A	ERH3055	B22040593	4/4/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW12A	ERH3056	B22040593	4/4/2022	FD			1											1																1					Energy	Yes	Yes	Yes
OWDFMW04A	ERH3038	580-112254-1	4/5/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH3067	580-112254-1	4/5/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH3068	580-112254-1	4/5/2022	FD																																		Eurofins Seattle	Yes	Yes	Yes
RHMW02	ERH3072	580-112254-1	4/5/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	ERH3075	580-112254-1	4/5/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW05	ERH3078	580-112254-1	4/5/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	ERH3092	580-112254-1	4/5/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	ERH3053	580-112352-1	4/5/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH3065	B22040430	4/5/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW01R	ERH3066	B22040430	4/5/2022	FD			1											1																1					Energy	Yes	Yes	Yes
RHMW02	ERH3071	B22040430	4/5/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW03	ERH3074	B22040430	4/5/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW05	ERH3077	B22040430	4/5/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW04A	ERH3037	B22040593	4/5/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW05A	ERH3091	B22040593	4/5/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW14-03	ERH3052	B22040680	4/5/2022	N														1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW13-05	ERH3087	580-112352-1	4/6/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	ERH3110	580-112352-1	4/6/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	ERH3113	580-112352-1	4/6/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	ERH3086	B22040680	4/6/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW04	ERH3109	B22040680	4/6/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW01	ERH3112	B22040680	4/6/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW07A	ERH3095	580-112423-1	4/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	ERH3098	580-112423-1	4/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH3048	580-112460-1	4/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT 3 Sump	ERH3101	580-112460-1	4/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH3104	580-112460-1	4/7/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH3107	580-112460-1	4/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH3047	B22040680	4/7/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW07A	ERH3094	B22040680	4/7/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW11-05	ERH3097	B22040680	4/7/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
ADIT 3 Sump	ERH3100	B22040680	4/7/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW2254-01	ERH3103	B22040680	4/7/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW2254-01	ERH3106	B22040680	4/7/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW09	ERH3041	580-112447-1	4/8/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW19	ERH3044	580-112447-1	4/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	ERH3040	B22040702	4/8/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW19	ERH3043	B22040702	4/8/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW15-05	ERH3290	580-113122-1	4/25/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	ERH3293	580-113122-1	4/25/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	ERH3303	580-113122-1	4/25/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	ERH3338	580-113153-1	4/25/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	ERH3289	B22041915	4/25/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW04A	ERH3292	B22041915	4/25/2022	N			1											1	1		1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW05A	ERH3302	B22041915	4/25/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	ERH3340	B22041915	4/25/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW08	ERH3341	B22041915	4/25/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW04	ERH3337	B22042031	4/25/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	ERH2231	580-113122-1	4/25/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	ERH3342	580-113122-1	4/25/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	ERH3306	580-113153-1	4/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH3319	580-113153-1	4/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	ERH3320	580-113153-1	4/26/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	ERH3323	580-113153-1	4/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	ERH3329	580-113153-1	4/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	ERH3332	580-113153-1	4/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	ERH3335	580-113153-1	4/26/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW03	ERH3343	580-113153-1	4/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	ERH3305	B22042031	4/26/2022	N			1											1	1	1	1	1								1		1	1	1					Energy	Yes	Yes	Yes
RHMW16	ERH3317	B22042031	4/26/2022	N			1											1	1	1	1	1								1		1	1	1					Energy	Yes	Yes	Yes
RHMW16	ERH3318	B22042031	4/26/2022	FD			1											1																1					Energy	Yes	Yes	Yes
RHMW01R	ERH3322	B22042031	4/26/2022	N			1											1	1	1	1	1								1		1	1	1					Energy	Yes	Yes	Yes
RHMW02	ERH3328	B22042031	4/26/2022	N			1											1	1	1	1	1								1		1	1	1					Energy	Yes	Yes	Yes
RHMW03	ERH3331	B22042031	4/26/2022	N			1											1	1	1	1	1								1		1	1	1					Energy	Yes	Yes	Yes
RHMW05	ERH3334	B22042031	4/26/2022	N			1											1	1	1	1	1								1		1	1	1					Energy	Yes	Yes	Yes
RHMW12A	ERH3310	B22042176	4/26/2022	N			1											1			1													1					Energy	Yes	Yes	Yes
RHMW12A	ERH3311	B22042176	4/26/2022	FD			1											1	1	1	1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW12A	ERH3312	580-113222-1	4/27/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	ERH3313	580-113222-1	4/27/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	ERH3346	580-113222-1	4/27/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	ERH3349	580-113222-1	4/27/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	ERH3356	580-113222-1	4/27/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	ERH3360	580-113231-1	4/27/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	ERH3345	B22042176	4/27/2022	N			1											1	1	1	1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW01	ERH3348	B22042176	4/27/2022	N			1											1	1	1	1									1		1	1	1					Energy	Yes	Yes	Yes
OWDFMW08A	ERH3355	B22042176	4/27/2022	N			1											1	1	1	1									1		1	1						Energy	Yes	Yes	Yes
OWDFMW07A	ERH3358	B22042176	4/27/2022	N			1											1	1	1	1									1		1	1	1					Energy	Yes	Yes	Yes
ADIT 3 Sump	ERH3352	580-113231-1	4/28/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH3366	580-113231-1	4/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	ERH3369	580-113231-1	4/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	ERH3372	580-113231-1	4/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	ERH3296	580-113284-1	4/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	ERH3299	580-113284-1	4/28/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT 3 Sump	ERH3351	B22042176	4/28/2022	N			1											1	1	1	1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW2254-01	ERH3365	B22042176	4/28/2022	N			1											1	1	1	1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW2254-01	ERH3368	B22042176	4/28/2022	N			1											1	1	1	1									1		1	1						Energy	Yes	Yes	Yes
RHMW11-05	ERH3371	B22042176	4/28/2022	N			1											1	1	1	1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW09	ERH3295	B22050016	4/28/2022	N			1											1	1	1	1									1		1	1	1					Energy	Yes	Yes	Yes
RHMW19	ERH3298	B22050016	4/28/2022	N			1											1	1	1	1									1		1	1	1					Energy	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270 C/D + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3630/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/Cl/S2O4 - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/Br/Fl - 300.0	TOC	Total Ca,Fe,Pb,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved P+PO_4^{3-}	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
OWDFMW04A	OWDFMW04A-WGFD01LF-2205WK1	B22050248	5/2/2022	FD			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2205WK1	B22050248	5/2/2022	N			1											1		1															1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2205WK1	580-113315-1	5/2/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2205WK1	580-113315-1	5/2/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2205WK1	B22050248	5/2/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2205WK1	580-113315-1	5/2/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2205WK1	B22050248	5/2/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2205WK1	580-113315-1	5/2/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2205WK1	B22050369	5/2/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2205WK1	580-113379-1	5/2/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2205WK1	B22050369	5/2/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2205WK1	580-113379-1	5/2/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2205WK1	580-113421-1	5/3/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2205WK1	B22050584	5/3/2022	N			1											1	1	1	1														1				Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2205WK1	580-113421-1	5/3/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2205WK1	B22050584	5/3/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2205WK1	580-113421-1	5/3/2022	N																																			Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2205WK1	B22050584	5/3/2022	N																																			Energy	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2205WK1	580-113421-1	5/3/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2205WK1	B22050584	5/3/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGFD01LF-2205WK1	580-113421-1	5/3/2022	FD			1											1	1	1	1									1		1	1		1				Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2205WK1	580-113421-1	5/3/2022	N			1											1		1															1				Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGFD01LF-2205WK1	B22050584	5/3/2022	FD																																1	1		Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2205WK1	B22050584	5/3/2022	N																																1	1		Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2205WK1	B22050248	5/3/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2205WK1	580-113379-1	5/3/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2205WK1	B22050369	5/3/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2205WK1	580-113379-1	5/3/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2205WK1	580-113421-1	5/4/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2205WK1	B22050584	5/4/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2205WK1	580-113421-1	5/4/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2205WK1	B22050584	5/4/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2205WK1	580-113421-1	5/4/2022	N			1											1	1	1	1									1		1	1		1				Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2205WK1	B22050584	5/4/2022	N																																1	1		Energy	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2205WK1	580-113421-1	5/4/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2205WK1	B22050584	5/4/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGFD01B-2205WK1	580-113421-1	5/4/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2205WK1	B22050584	5/4/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2205WK1	580-113421-1	5/4/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGFD01B-2205WK1	B22050584	5/4/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2205WK1	580-113421-1	5/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2205WK1	B22050584	5/5/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2205WK1	B22050640	5/5/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2205WK1	580-113532-1	5/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2205WK1	B22050584	5/5/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2205WK1	580-113498-1	5/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2205WK1	B22050584	5/5/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2205WK1	580-113498-1	5/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2205WK1	580-113498-1	5/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2205WK1	B22050584	5/5/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2205WK1	B22050584	5/5/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2205WK1	580-113498-1	5/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2205WK2	B22050838	5/9/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2205WK2	580-113665-1	5/9/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2205WK2	B22050838	5/9/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2205WK2	580-113665-1	5/9/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2205WK2	B22050838	5/9/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2205WK2	580-113665-1	5/9/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2205WK2	B22050838	5/9/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2205WK2	580-113665-1	5/9/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2205WK2	B22050838	5/9/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2205WK2	580-113665-1	5/9/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2205WK2	B22050838	5/9/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2205WK2	580-113665-1	5/9/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2205WK2	B22050838	5/10/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2205WK2	580-113665-1	5/10/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2205WK2	B22050838	5/10/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2205WK2	580-113665-1	5/10/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2205WK2	B22050838	5/10/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2205WK2	580-113665-1	5/10/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2205WK2	B22051223	5/10/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2205WK2	580-113705-1	5/10/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2205WK2	B22051223	5/10/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2205WK2	580-113705-1	5/10/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2205WK2	B22051223	5/10/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2205WK2	580-113705-1	5/10/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2205WK2	B22051223	5/10/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2205WK2	580-113705-1	5/10/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2205WK2	B22051223	5/11/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2205WK2	580-113705-1	5/11/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2205WK2	B22051223	5/11/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2205WK2	580-113705-1	5/11/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2205WK2	B22051223	5/11/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2205WK2	580-113705-1	5/11/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2205WK2	B22051223	5/11/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2205WK2	580-113761-1	5/11/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2205WK2	B22051223	5/11/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2205WK2	580-113761-1	5/11/2022	FD																																			Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2205WK2	B22051223	5/11/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2205WK2	580-113705-1	5/11/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2205WK2	B22051223	5/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2205WK2	580-113761-1	5/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2205WK2	B22051223	5/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2205WK2	580-113761-1	5/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2205WK2	B22051223	5/12/2022	N			1							*				1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2205WK2	580-113761-1	5/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2205WK2	B22051239	5/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2205WK2	580-113811	5/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2205WK2	B22051239	5/12/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2205WK2	580-113811	5/12/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2205WK2	B22051239	5/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2205WK2	580-113811	5/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2205WK2	B22051223	5/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2205WK2	580-113761-1	5/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2205WK3	B22051422	5/16/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2205WK3	580-113885-1	5/16/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2205WK3	B22051422	5/16/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2205WK3	580-113885-1	5/16/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2205WK3	B22051422	5/16/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2205WK3	580-113885-1	5/16/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2205WK3	B22051585	5/16/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2205WK3	580-113909-1	5/16/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2205WK3	B22051585	5/16/2022	FD			1											1			1														1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2205WK3	580-113909-1	5/16/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2205WK3	B22051585	5/17/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2205WK3	580-113909-1	5/17/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2205WK3	B22051585	5/17/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2205WK3	580-113909-1	5/17/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2205WK3	B22051585	5/17/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2205WK3	580-113909-1	5/17/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2205WK3	B22051585	5/17/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2205WK3	580-113909-1	5/17/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2205WK3	B22051585	5/17/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-metoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3520/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3N - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/ClO4/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4™	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW03	RHMW03-WGN01B-2205WK3	580-113909-1	5/17/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2205WK3	B22051585	5/17/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2205WK3	580-113909-1	5/17/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2205WK3	B22051585	5/17/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2205WK3	580-113909-1	5/17/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2205WK3	B22051901	5/18/2022	N			1											1	1	1	1								1		1	1						Energy	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2205WK3	580-113959-1	5/18/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2205WK3	B22051901	5/18/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2205WK3	580-113959-1	5/18/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2205WK3	B22051901	5/18/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2205WK3	580-113959-1	5/18/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2205WK3	B22051901	5/18/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2205WK3	580-113959-1	5/18/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2205WK3	B22051901	5/18/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2205WK3	580-113959-1	5/18/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2205WK3	B22051901	5/18/2022	FD			1																											1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2205WK3	580-113959-1	5/18/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2205WK3	B22051901	5/19/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2205WK3	580-114019-1	5/19/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2205WK3	B22051901	5/19/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2205WK3	580-114019-1	5/19/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2205WK3	B22051901	5/19/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2205WK3	580-114019-1	5/19/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2205WK3	B22051901	5/19/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2205WK3	580-114019-1	5/19/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2205WK3	B22051901	5/19/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2205WK3	580-114019-1	5/19/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2205WK3	B22051901	5/19/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2205WK3	580-114019-1	5/19/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2205WK3	B22051901	5/19/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2205WK3	580-114019-1	5/19/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2205WK3	B22052186	5/20/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2205WK3	580-114072-1	5/20/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2205WK4	B22052203	5/23/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2205WK4	580-114117-1	5/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2205WK4	B22052203	5/23/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2205WK4	580-114117-1	5/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2205WK4	B22052203	5/23/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2205WK4	580-114117-1	5/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2205WK4	B22052203	5/23/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2205WK4	580-114117-1	5/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2205WK4	B22052203	5/23/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2205WK4	580-114117-1	5/23/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2205WK4	B22052203	5/23/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2205WK4	580-114117-1	5/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2205WK4	B22052342	5/23/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2205WK4	580-114142-1	5/23/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2205WK4	B22052342	5/23/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2205WK4	580-114142-1	5/23/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2205WK4	B22052342	5/24/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2205WK4	580-114142-1	5/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2205WK4	B22052342	5/24/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2205WK4	580-114142-1	5/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2205WK4	B22052342	5/24/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2205WK4	580-114142-1	5/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2205WK4	B22052342	5/24/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2205WK4	580-114142-1	5/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2205WK4	B22052342	5/24/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2205WK4	580-114142-1	5/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2205WK4	B22052342	5/24/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2205WK4	580-114142-1	5/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2205WK4	B22052342	5/24/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2205WK4	580-114142-1	5/24/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2205WK4	B22052643	5/25/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2205WK4	580-114195-1	5/25/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2205WK4	B22052643	5/25/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2205WK4	580-114229-1	5/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2205WK4	B22052643	5/25/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2205WK4	580-114195-1	5/25/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2205WK4	B22052643	5/25/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2205WK4	580-114195-1	5/25/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2205WK4	B22052643	5/26/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2205WK4	580-114229-1	5/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2205WK4	B22052643	5/26/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2205WK4	580-114229-1	5/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2205WK4	B22052643	5/26/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2205WK4	580-114229-1	5/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2205WK4	B22052643	5/26/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2205WK4	580-114229-1	5/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2205WK4	B22052643	5/26/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2205WK4	580-114229-1	5/26/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2205WK4	B22052643	5/26/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2205WK4	580-114229-1	5/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2205WK4	B22052643	5/26/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2205WK4	580-114229-1	5/26/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2205WK5	B22060384	5/31/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2205WK5	580-114383-1	5/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2205WK5	B22060384	5/31/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2205WK5	580-114383-1	5/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2205WK5	B22060384	5/31/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2205WK5	580-114423-1	5/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2205WK5	B22060384	5/31/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2205WK5	580-114383-1	5/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2205WK5	B22060384	5/31/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2205WK5	580-114383-1	5/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2205WK5	B22060384	5/31/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2205WK5	580-114383-1	5/31/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2205WK5	B22060384	6/1/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2205WK5	580-114423-1	6/1/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2205WK5	B22060384	6/1/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2205WK5	580-114383-1	6/1/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2205WK5	B22060384	6/1/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2205WK5	580-114383-1	6/1/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2205WK5	B22060384	6/1/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2205WK5	580-114383-1	6/1/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2205WK5	B22060384	6/1/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2205WK5	580-114423-1	6/1/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2205WK5	B22060384	6/2/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2205WK5	580-114423-1	6/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2205WK5	B22060384	6/2/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2205WK5	580-114423-1	6/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2205WK5	B22060384	6/2/2022	N																															1	1		Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2205WK5	580-114423-1	6/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2205WK5	B22060384	6/2/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2205WK5	580-114423-1	6/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2205WK5	B22060384	6/2/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2205WK5	580-114423-1	6/2/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2205WK5	B22060384	6/2/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2205WK5	580-114423-1	6/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2205WK5	B22060384	6/2/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2205WK5	580-114423-1	6/2/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2205WK5	B22060394	6/3/2022	N			1											1	1	1	1								1		1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2205WK5	580-114443-1	6/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3520/3510	TPH-D/O+SGT-8015C+L-Lext+3520	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3N - 300.0	Nitrate+nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/ClO3/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4™	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW08	RHMW08-WGN01B-2205WK5	B22060394	6/3/2022	N			1											1	1	1	1									1		1		1				Energy	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2205WK5	580-114443-1	6/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2205WK5	B22060394	6/3/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2205WK5	580-114469-1	6/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2205WK5	B22060394	6/3/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2205WK5	580-114443-1	6/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2205WK5	B22060394	6/3/2022	FD			1											1		1														1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2205WK5	580-114443-1	6/3/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2205WK5	B22060394	6/3/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2205WK5	580-114443-1	6/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2205WK5	B22060394	6/3/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2205WK5	580-114443-1	6/3/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2205WK5	B22060394	6/3/2022	FD			1											1		1														1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2205WK5	580-114443-1	6/3/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGF01LF-2206WK1	B22060631	6/6/2022	FD			1											1		1														1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGF01LF-2206WK1	580-114502-1	6/6/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2206WK1	B22060631	6/6/2022	N			1											1	1	1	1									1				1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2206WK1	580-114502-1	6/6/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2206WK1	B22060631	6/6/2022	N			1											1	1	1	1									1				1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2206WK1	580-114502-1	6/6/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2206WK1	B22060861	6/6/2022	N			1											1	1	1	1									1				1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2206WK1	580-114619-1	6/6/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2206WK1	B22060631	6/6/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2206WK1	580-114502-1	6/6/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2206WK1	B22060861	6/6/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2206WK1	580-114619-1	6/6/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2206WK1	B22060861	6/7/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2206WK1	580-114619-1	6/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2206WK1	B22060861	6/7/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2206WK1	580-114619-1	6/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2206WK1	B22060861	6/7/2022	N			1												1	1	1	1								1		1	1	1				Energy	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2206WK1	580-114619-1	6/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2206WK1	B22060861	6/7/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2206WK1	580-114619-1	6/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2206WK1	B22060861	6/7/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2206WK1	580-114619-1	6/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2206WK1	B22060861	6/7/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2206WK1	580-114619-1	6/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2206WK1	B22060861	6/7/2022	N			1											1	1	1	1									1				1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2206WK1	580-114619-1	6/7/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2206WK1	B22061067	6/8/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2206WK1	580-114619-1	6/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2206WK1	B22061067	6/8/2022	FD			1											1		1														1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2206WK1	580-114719-1	6/8/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2206WK1	B22061067	6/8/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2206WK1	580-114719-1	6/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2206WK1	B22061067	6/8/2022	FD			1											1																1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2206WK1	580-114719-1	6/8/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2206WK1	B22061067	6/8/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2206WK1	580-114719-1	6/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2206WK1	B22061067	6/8/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2206WK1	580-114719-1	6/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2206WK1	B22061067	6/8/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2206WK1	580-114719-1	6/8/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2206WK1	B22061067	6/9/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2206WK1	580-114719-1	6/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2206WK1	B22061067	6/9/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2206WK1	580-114719-1	6/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2206WK1	B22061067	6/9/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2206WK1	580-114719-1	6/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2206WK1	B22061067	6/9/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2206WK1	580-114719-1	6/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2206WK1	B22061067	6/9/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2206WK1	580-114719-1	6/9/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2206WK1	580-114737-1	6/10/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2206WK1	B22061093	6/10/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2206WK2	580-114807-1	6/13/2022	FD													1			1														1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2206WK2	B22061281	6/13/2022	FD			1											1		1														1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2206WK2	580-114807-1	6/13/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2206WK2	B22061281	6/13/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2206WK2	580-114807-1	6/13/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2206WK2	B22061281	6/13/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2206WK2	580-114880-1	6/13/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2206WK2	B22061391	6/13/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2206WK2	B22061281	6/13/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2206WK2	580-114807-1	6/13/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2206WK2	580-114880-1	6/13/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2206WK2	B22061391	6/13/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2206WK2	580-114880-1	6/14/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2206WK2	B22061693	6/14/2022	N			1											1	1	1	1									1		1	1					Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2206WK2	B22061693	6/14/2022	N			1											1	1	1	1									1		1	1					Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2206WK2	580-114880-1	6/14/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2206WK2	B22061693	6/14/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2206WK2	580-114880-1	6/14/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2206WK2	580-114880-1	6/14/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2206WK2	B22061693	6/14/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2206WK2	580-114880-1	6/14/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2206WK2	B22061693	6/14/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2206WK2	580-114880-1	6/14/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2206WK2	B22061693	6/14/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2206WK2	B22061693	6/14/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2206WK2	580-114880-1	6/14/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2206WK2	B22061681	6/15/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2206WK2	580-114991-1	6/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2206WK2	B22061681	6/15/2022	FD			1											1		1														1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2206WK2	580-114929-1	6/15/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2206WK2	B22061681	6/15/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2206WK2	580-114929-1	6/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2206WK2	B22061681	6/15/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2206WK2	580-114991-1	6/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2206WK2	580-114929-1	6/15/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2206WK2	B22061681	6/15/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2206WK2	580-114929-1	6/15/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2206WK2	B22061681	6/15/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2206WK2	B22061681	6/16/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2206WK2	580-114991-1	6/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2206WK2	B22061681	6/16/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2206WK2	580-114991-1	6/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2206WK2	580-114991-1	6/16/2022	FD																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2206WK2	B22061681	6/16/2022	FD			1											1		1														1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2206WK2	580-114991-1	6/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2206WK2	B22061681	6/16/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2206WK2	580-114991-1	6/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2206WK2	B22061681	6/16/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2206WK2	B22061681	6/16/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2206WK2	580-114991-1	6/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2206WK2	B22061681	6/16/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2206WK2	580-114991-1	6/16/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2206WK3	B22061836	6/20/2022	N			1											1	1	1	1									1		1	1	1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2206WK3	580-115148-1	6/20/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2206WK3	B22061836	6/20/2022	N			1											1	1	1	1									1	1	1	1	1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2206WK3	B22061836	6/20/2022	N			1											1	1	1	1									1	1	1	1	1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2206WK3	580-115086-1	6/20/2022	N																															1	1		Eurofins Seattle	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3520/3510	TPH-D/O+SGT-8015C+L-Lext+3520	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3N - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW15-05	RHMW15-05-WGN01G-2206WK3	B22061836	6/20/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2206WK3	580-115095-1	6/20/2022	N																															1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2206WK3	B22061836	6/20/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2206WK3	580-115086-1	6/20/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2206WK3	B22062306	6/21/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2206WK3	580-115159-1	6/21/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2206WK3	B22061836	6/21/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2206WK3	580-115148-1	6/21/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2206WK3	B22061836	6/21/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2206WK3	580-115148-1	6/21/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2206WK3	580-115148-1	6/21/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2206WK3	B22061836	6/21/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2206WK3	580-115148-1	6/21/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2206WK3	B22062306	6/21/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2206WK3	B22061836	6/21/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2206WK3	580-115148-1	6/21/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2206WK3	B22062306	6/21/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2206WK3	580-115159-1	6/21/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2206WK3	B22062306	6/22/2022	FD			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2206WK3	580-115224-1	6/22/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2206WK3	580-115159-1	6/22/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2206WK3	B22062306	6/22/2022	FD			1												1	1														1					Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2206WK3	B22062306	6/22/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2206WK3	580-115159-1	6/22/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2206WK3	B22062306	6/22/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2206WK3	580-115159-1	6/22/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2206WK3	B22062306	6/22/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2206WK3	580-115159-1	6/22/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2206WK3	580-115159-1	6/22/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2206WK3	B22062306	6/22/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2206WK3	580-115159-1	6/22/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGFD01B-2206WK3	580-115224-1	6/23/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGFD01B-2206WK3	B22062306	6/23/2022	FD			1											1		1														1					Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2206WK3	B22062306	6/23/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2206WK3	580-115224-1	6/23/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A -WGN01LF-2206WK3	580-115224-1	6/23/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2206WK3	B22062306	6/23/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2206WK3	B22062306	6/23/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2206WK3	580-115224-1	6/23/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2206WK3	B22062342	6/23/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2206WK3	580-115251-1	6/23/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2206WK3	B22062306	6/23/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2206WK3	580-115224-1	6/23/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254	RHMW2254-01-WGN01LF-2206WK3	580-115224-1	6/23/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254	RHMW2254-01-WGN01LF-2206WK3	B22062306	6/23/2022	N			1											1	1	1	1									1	1	1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2206WK3	B22062342	6/24/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2206WK3	580-115251-1	6/24/2022	N																																			Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2206WK4	B22070084	6/28/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2206WK4	580-115429-1	6/28/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2206WK4	B22070084	6/28/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2206WK4	580-115429-1	6/28/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2206WK4	B22062700	6/28/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2206WK4	580-115381-1	6/28/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2206WK4	B22070084	6/28/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2206WK4	580-115429-1	6/28/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2206WK4	B22070084	6/29/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2206WK4	580-115429-1	6/29/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2206WK4	B22070084	6/29/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2206WK4	580-115429-1	6/29/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2206WK4	B22070084	6/29/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2206WK4	580-115429-1	6/29/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2206WK4	B22070084	6/29/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2206WK4	580-115429-1	6/29/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2206WK4	B22070084	6/29/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2206WK4	580-115475-1	6/29/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2206WK4	B22070084	6/29/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2206WK4	580-115429-1	6/29/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2206WK4	B22070084	6/29/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2206WK4	580-115429-1	6/29/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2206WK4	B22070084	6/30/2022	FD			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2206WK4	580-115475-1	6/30/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2206WK4	B22070084	6/30/2022	N			1											1		1														1					Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2206WK4	580-115475-1	6/30/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2206WK4	B22070084	6/30/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2206WK4	580-115475-1	6/30/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2206WK4	B22070378	6/30/2022	FD																																			Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2206WK4	580-115475-1	6/30/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2206WK4	B22070378	6/30/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2206WK4	580-115475-1	6/30/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2206WK4	B22070084	6/30/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2206WK4	580-115475-1	6/30/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2206WK4	B22070084	6/30/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2206WK4	580-115475-1	6/30/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2206WK4	B22070084	6/30/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2206WK4	580-115475-1	6/30/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2206WK4	B22070115	7/1/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2206WK4	580-115520-1	7/1/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2206WK4	B22070115	7/1/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2206WK4	580-115520-1	7/1/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2206WK4	B22070115	7/1/2022	FD			1											1		1														1					Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2206WK4	580-115520-1	7/1/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2206WK4	580-115520-1	7/1/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2206WK4	B22070115	7/1/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2206WK4	B22070115	7/1/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2206WK4	580-115520-1	7/1/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2206WK4	B22070115	7/1/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2206WK4	580-115520-1	7/1/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2206WK4	B22070115	7/1/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2206WK4	580-115520-1	7/1/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2206WK4	B22070115	7/1/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2206WK4	580-115520-1	7/1/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2207WK1	B22070649	7/5/2022	FD			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2207WK1	580-115632-1	7/5/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2207WK1	B22070649	7/5/2022	N			1											1		1														1					Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2207WK1	580-115632-1	7/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2207WK1	B22070649	7/5/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2207WK1	580-115632-1	7/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2207WK1	B22070649	7/5/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2207WK1	580-115632-1	7/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2207WK1	B22070535	7/5/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2207WK1	580-115612-1	7/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2207WK1	B22070649	7/5/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2207WK1	580-115632-1	7/5/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2207WK1	B22070649	7/6/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2207WK1	580-115734-1	7/6/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2207WK1	B22070649	7/6/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2207WK1	580-115632-1	7/6/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2207WK1	B22070649	7/6/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2207WK1	580-115632-1	7/6/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2207WK1	B22070649	7/6/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2207WK1	580-115632-1	7/6/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2207WK1	B22070649	7/6/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2207WK1	580-115632-1	7/6/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270 C/D + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3630/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/Cl/S2O4 - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/Br/Fl - 300.0	TOC	Total Ca,Fe,Pb,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved P+PO_4^{3-}	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW13-05	RHMW13-05-WGN01G-2207WK1	B22070649	7/6/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2207WK1	580-115734-1	7/6/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2207WK1	B22070649	7/6/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2207WK1	580-115734-1	7/6/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2207WK1	B22070649	7/7/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2207WK1	580-115734-1	7/7/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2207WK1	B22070649	7/7/2022	N			1			1	1	1	1	1	1	1	1	1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2207WK1	580-115734-1	7/7/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2207WK1	B22070649	7/7/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2207WK1	580-115734-1	7/7/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2207WK1	B22070649	7/7/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2207WK1	580-115734-1	7/7/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2207WK1	B22070649	7/7/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2207WK1	580-115734-1	7/7/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2207WK1	B22070649	7/7/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2207WK1	580-115734-1	7/7/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2207WK1	B22070649	7/7/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2207WK1	580-115734-1	7/7/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2207WK1	B22070659	7/8/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2207WK1	580-115755-1	7/8/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2207WK1	B22070659	7/8/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2207WK1	580-115782-1	7/8/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2207WK1	B22070659	7/8/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2207WK1	580-115782-1	7/8/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2207WK1	B22070659	7/8/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2207WK1	580-115755-1	7/8/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2207WK1	B22070659	7/8/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2207WK1	580-115755-1	7/8/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2207WK1	B22070659	7/8/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2207WK1	580-115755-1	7/8/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2207WK1	B22070659	7/8/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2207WK1	580-115755-1	7/8/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2207WK2	B22070877	7/11/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2207WK2	580-115820-1	7/11/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2207WK2	B22070877	7/11/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2207WK2	580-115820-1	7/11/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2207WK2	B22070877	7/11/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2207WK2	580-115820-1	7/11/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2207WK2	B22070877	7/11/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2207WK2	580-115820-1	7/11/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2207WK2	B22070877	7/11/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2207WK2	580-115820-1	7/11/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2207WK2	B22071215	7/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2207WK2	580-115907-1	7/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2207WK2	B22070878	7/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2207WK2	580-115873-1	7/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2207WK2	B22070878	7/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2207WK2	580-115873-1	7/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2207WK2	B22070878	7/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2207WK2	580-115873-1	7/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2207WK2	B22070878	7/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2207WK2	580-115873-1	7/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2207WK2	B22070878	7/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2207WK2	580-115873-1	7/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2207WK2	B22071215	7/12/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2207WK2	580-115907-1	7/12/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2207WK2	B22071215	7/13/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2207WK2	580-115907-1	7/13/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2207WK2	B22071215	7/13/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2207WK2	580-115907-1	7/13/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2207WK2	B22071215	7/13/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2207WK2	580-115907-1	7/13/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2207WK2	580-115907-1	7/13/2022	N																																			Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2207WK2	B22071215	7/13/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2207WK2	B22071215	7/13/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2207WK2	580-115907-1	7/13/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2207WK2	B22071215	7/13/2022	N																1															1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2207WK2	580-115907-1	7/13/2022	N																																			Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2207WK2	B22071215	7/13/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2207WK2	580-115907-1	7/13/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2207WK2	B22071215	7/14/2022	FD			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2207WK2	580-115958-1	7/14/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2207WK2	B22071215	7/14/2022	N														1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2207WK2	580-115958-1	7/14/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2207WK2	B22071215	7/14/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2207WK2	580-115958-1	7/14/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2207WK2	B22071248	7/14/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2207WK2	580-115988-1	7/14/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2207WK2	B22071215	7/14/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2207WK2	580-115958-1	7/14/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2207WK2	B22071248	7/15/2022	FD			1											1		1															1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2207WK2	580-115988-1	7/15/2022	FD																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2207WK2	B22071248	7/15/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2207WK2	580-115988-1	7/15/2022	N																																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2207WK2	B22071248	7/15/2022	N			1											1	1	1	1									1		1	1		1				Energy	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2207WK2	580-115988-1	7/15/2022	N																															1	1			Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK1	580-116502-1	8/1/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK1	580-116502-1	8/1/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2208WK1	580-116502-1	8/1/2022	FD		1		1									1			1															1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK1	580-116502-1	8/1/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK1	580-116497-1	8/1/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK1	580-116497-1	8/1/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK1	580-116497-1	8/1/2022	N																																	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK1	580-116573-1	8/1/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK1	580-116573-1	8/1/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK1	580-116573-1	8/1/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK1	580-116578-1	8/1/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK1	580-116578-1	8/1/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK1	580-116578-1	8/1/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK1	580-116606-1	8/2/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK1	580-116606-1	8/2/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK1	580-116606-1	8/2/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK1	580-116634-1	8/2/2022	N														x			1																		Eurofins Denver	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK1	580-116634-1	8/2/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK1	580-116634-1	8/2/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK1	580-116606-1	8/2/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK1	580-116606-1	8/2/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK1	580-116606-1	8/2/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK1	580-116606-1	8/2/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK1	580-116606-1	8/2/2022	N		1		1									1		1	1										1		1	1						Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK1	580-116606-1	8/2/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK1	580-116606-1	8/2/2022	N				1									1			1															1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK1	580-116606-1	8/2/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK1	580-116606-1	8/2/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK1	580-116606-1	8/2/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK1	580-116606-1	8/2/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK1	580-116606-1	8/2/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK1	580-116606-1	8/2/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK1	580-116606-1	8/2/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK1	580-116606-1	8/2/2022	N		1		1									1		1	1										1		1	1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK1	580-116606-1	8/2/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2208WK1	580-116676-1	8/3/2022	N																	1																		Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2208WK1	580-116676-1	8/3/2022	N		1		1									1		1	1										1					1				Eurofins Seattle	No	No	No

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270 C/D + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT- 8015C+3630/3510	TPH-D/O+SGT- 8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/Cl/S2O4 - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/Br/Fl - 300.0	TOC	Total Ca,Fe,Pb,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved P+PO$_4^{3-}$	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW04	RHMW04-WGN01B-2208WK1	580-116647-1	8/3/2022	N																	1																		Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN01B-2208WK1	580-116647-1	8/3/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGFD01B-2208WK1	580-116647-1	8/3/2022	FD		1		1																											1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2208WK1	580-116647-1	8/3/2022	N																												1							Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2208WK1	580-116606-1	8/3/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2208WK1	580-116606-1	8/3/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2208WK1	580-116606-1	8/3/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2208WK1	580-116606-1	8/3/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2208WK1	580-116606-1	8/3/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2208WK1	580-116606-1	8/3/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK1	580-116606-1	8/2/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK1	580-116606-1	8/2/2022	N		1		1									1		1	1										1		1	1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK1	580-116606-1	8/2/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2208WK1	580-116606-1	8/3/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2208WK1	580-116606-1	8/3/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2208WK1	580-116606-1	8/3/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2208WK1	580-116606-1	8/3/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2208WK1	580-116606-1	8/3/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2208WK1	580-116606-1	8/3/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK1	580-116647-1	8/4/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK1	580-116647-1	8/4/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK1	580-116647-1	8/4/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK1	580-116647-1	8/4/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK1	580-116647-1	8/4/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK1	580-116647-1	8/4/2022	N																												1							Eurofins Denver	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK1	580-116647-1	8/4/2022	N																	1																		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK1	580-116647-1	8/4/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK1	580-116647-1	8/4/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK1	580-116647-1	8/4/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK1	580-116647-1	8/4/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK1	580-116647-1	8/4/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2208WK1	580-116647-1	8/4/2022	FD		1		1									1			1															1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK1	580-116647-1	8/4/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK2	580-116749-1	8/8/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK2	580-116749-1	8/8/2022	N		1											1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGFD01LF-2208WK2	580-116749-1	8/8/2022	FD		1		1												1															1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK2	580-116749-1	8/8/2022	N																												1							Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK2	580-116749-1	8/8/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK2	580-116749-1	8/8/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK2	580-116749-1	8/8/2022	N																												1							Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2208WK2	580-116749-1	8/8/2022	N																	1																		Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN01B-2208WK2	580-116749-1	8/8/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2208WK2	580-116749-1	8/8/2022	N																												1							Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2208WK2	580-116749-1	8/8/2022	N																	1																		Eurofins Denver	No	No	No
RHMW19	RHMW19-WGN01B-2208WK2	580-116749-1	8/8/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2208WK2	580-116749-1	8/8/2022	N																												1							Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2208WK2	580-116809-1	8/9/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK2	580-116809-1	8/9/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK2	580-116809-1	8/9/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK2	580-116809-1	8/9/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK2	580-116809-1	8/9/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK2	580-116809-1	8/9/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK2	580-116809-1	8/9/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK2	580-116809-1	8/9/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK2	580-116809-1	8/9/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK2	580-116809-1	8/9/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK2	580-116809-1	8/9/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK2	580-116809-1	8/9/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK2	580-116809-1	8/9/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK2	580-116809-1	8/9/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK2	580-116809-1	8/9/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK1	580-116647-1	8/4/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK2	580-116835-1	8/10/2022	N																	1																		Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN01B-2208WK2	580-116835-1	8/10/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2208WK2	580-116835-1	8/10/2022	N		1		1									1			1										1					1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2208WK2	580-116835-1	8/10/2022	N																												1							Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2208WK2	580-116809-1	8/10/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK2	580-116809-1	8/10/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK2	580-116809-1	8/10/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2208WK2	580-116857-1	8/10/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2208WK2	580-116857-1	8/10/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2208WK2	580-116857-1	8/10/2022	FD		1		1									1													1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2208WK2	580-116857-1	8/10/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2208WK2	580-116857-1	8/10/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2208WK2	580-116857-1	8/10/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2208WK2	580-116857-1	8/10/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2208WK2	580-116857-1	8/10/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2208WK2	580-116857-1	8/10/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2208WK2	580-116857-1	8/10/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2208WK2	580-116857-1	8/10/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2208WK2	580-116857-1	8/10/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2208WK2	580-116857-1	8/10/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2208WK2	580-116857-1	8/10/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2208WK2	580-116857-1	8/10/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2208WK2	580-116857-1	8/10/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK2	580-116924-1	8/11/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK2	580-116924-1	8/11/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK2	580-116924-1	8/11/2022	N																												1			1				Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK2	580-116924-1	8/11/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK2	580-116924-1	8/11/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK2	580-116924-1	8/11/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK2	580-116924-1	8/11/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK2	580-116924-1	8/11/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK2	580-116926-1	8/11/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK2	580-116926-1	8/11/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK2	580-116926-1	8/11/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK2	580-116925-1	8/11/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK2	580-116925-1	8/11/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2208WK2	580-116925-1	8/11/2022	FD		1		1									1																			1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK2	580-116925-1	8/11/2022	N																1																			Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK2	580-116979-1	8/12/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK2	580-116979-1	8/12/2022	N		1											1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK2	580-116979-1	8/12/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2208WK2	580-116979-1	8/12/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2208WK2	580-116979-1	8/12/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2208WK2	580-116979-1	8/12/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2208WK2	580-116979-1	8/13/2022	N		1		1									1													1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01LF-2208WK2	580-116979-1	8/13/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01LF-2208WK2	580-116979-1	8/13/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01LF-2208WK2	580-116979-1	8/13/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK3	580-116988-1	8/15/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK3	580-116988-1	8/15/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2208WK3	580-116988-1	8/15/2022	FD		1		1									1			1															1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK3	580-116988-1	8/15/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK3	580-116988-1	8/15/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK3	580-116988-1	8/15/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK3	580-116988-1	8/15/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270 C/D + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3630/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/Cl/S2O4 - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/Br/Fl - 300.0	TOC	Total Ca,Fe,Pb,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved P+PO$_4^{3-}$	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW09	RHMW09-WGN01B-2208WK3	580-116988-1	8/15/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK3	580-116988-1	8/15/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK3	580-116988-1	8/15/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK3	580-116988-1	8/15/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK3	580-116988-1	8/15/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK3	580-116988-1	8/15/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK3	580-116979-1	8/15/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK3	580-116979-1	8/15/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK3	580-116979-1	8/15/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK2	580-116924-1	8/11/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK3	580-117058-1	8/16/2022	N																	1																		Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN01B-2208WK3	580-117058-1	8/16/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2208WK3	580-117058-1	8/16/2022	N																												1							Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2208WK3	580-117032-1	8/16/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK3	580-117032-1	8/16/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK3	580-117032-1	8/16/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK3	580-117032-1	8/16/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK3	580-117032-1	8/16/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK3	580-117032-1	8/16/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK3	580-117058-1	8/16/2022	N																	1																		Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN01B-2208WK3	580-117058-1	8/16/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2208WK3	580-117058-1	8/16/2022	N		1		1									1			1															1	1	1		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2208WK3	580-117032-1	8/16/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK3	580-117032-1	8/16/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK3	580-117032-1	8/16/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK3	580-117032-1	8/16/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2208WK2	580-116979-1	8/13/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK3	580-117032-1	8/16/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK3	580-117032-1	8/16/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2208WK3	580-117032-1	8/16/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2208WK3	580-117032-1	8/16/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2208WK3	580-117032-1	8/16/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2208WK3	580-117085-1	8/17/2022	N																	1																		Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN01B-2208WK3	580-117085-1	8/17/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGFD01B-2208WK3	580-117085-1	8/17/2022	FD		1											1			1															1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2208WK3	580-117085-1	8/17/2022	N																												1							Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2208WK3	580-117085-1	8/17/2022	N																	1																		Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN01B-2208WK3	580-117085-1	8/17/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2208WK3	580-117085-1	8/17/2022	N																												1							Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2208WK3	580-117085-1	8/17/2022	N																	1																		Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN01B-2208WK3	580-117085-1	8/17/2022	N		1		1									1		1	1										1			1		1	1			Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2208WK3	580-117085-1	8/17/2022	N																												1							Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2208WK3	580-117140-1	8/17/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2208WK3	580-117140-1	8/17/2022	N		1		1									1		1	1										1			1		1	1			Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2208WK3	580-117140-1	8/17/2022	N																																			Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2208W3	580-117085-1	8/17/2022	N																	1																		Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN01B-2208WK3	580-117085-1	8/17/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2208WK3	580-117085-1	8/17/2022	N																												1							Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2208WK3	580-117085-1	8/17/2022	N																	1																		Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2208WK3	580-117085-1	8/17/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2208WK3	580-117085-1	8/17/2022	N																												1							Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2208WK3	580-117140-1	8/18/2022	N																	1																		Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2208WK3	580-117140-1	8/18/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2208WK3	580-117150-1	8/18/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK3	580-117150-1	8/18/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK3	580-117150-1	8/18/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK3	580-117162-1	8/18/2022	N																	1																		Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK3	580-117162-1	8/18/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK3	580-117162-1	8/18/2022	N																												1							Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2208WK3	580-117058-1	8/16/2022	N																												1							Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK3	580-117162-1	8/18/2022	N																	1																		Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK3	580-117162-1	8/18/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK3	580-117162-1	8/18/2022	N																												1							Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK3	580-117150-1	8/18/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK3	580-117150-1	8/18/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK3	580-117150-1	8/19/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK3	580-117150-1	8/19/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2208WK3	580-117150-1	8/19/2022	FD		1		1									1			1																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK3	580-117150-1	8/19/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK4	580-117203-1	8/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK4	580-117203-1	8/22/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2208WK4	580-117203-1	8/22/2022	FD		1		1									1			1																1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK4	580-117203-1	8/22/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK4	580-117203-1	8/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK4	580-117203-1	8/22/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK4	580-117203-1	8/22/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK4	580-117203-1	8/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK4	580-117203-1	8/22/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK4	580-117203-1	8/22/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK4	580-117203-1	8/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK4	580-117203-1	8/22/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2208WK4	580-117203-1	8/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2208WK4	580-117203-1	8/22/2022	N		1		1									1		1	1										1			1			1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2208WK4	580-117203-1	8/22/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2208WK4	580-117203-1	8/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2208WK4	580-117203-1	8/22/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2208WK4	580-117203-1	8/22/2022	N																																			Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK4	580-117247-1	8/23/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2208WK3	580-117140-1	8/18/2022	N																												1							Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2208WK4	580-117247-1	8/23/2022	N		1		1									1		1	1										1					1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK4	580-117247-1	8/23/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK4	580-117247-1	8/23/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK4	580-117247-1	8/23/2022	N		1		1									1		1	1										1			1		1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK4	580-117247-1	8/23/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK4	580-117283-1	8/23/2022	N																	1																		Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN01B-2208WK4	580-117283-1	8/23/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2208WK4	580-117283-1	8/23/2022	N		1		1									1																		1	1	1		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2208WK4	580-117247-1	8/23/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK4	580-117247-1	8/23/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK4	580-117247-1	8/23/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK4	580-117247-1	8/23/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK4	580-117247-1	8/23/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK4	580-117247-1	8/23/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK4	580-117247-1	8/23/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK4	580-117247-1	8/23/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK4	580-117247-1	8/23/2022	N																												1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK4	580-117283-1	8/23/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK4	580-117283-1	8/23/2022	N		1		1									1		1	1										1		1			1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD01LF-2208WK4	580-117283-1	8/23/2022	FD		1		1									1			1										1						1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK4	580-117283-1	8/23/2022	N																												1							Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2208WK4	580-117295-1	8/24/2022	N																	1																		Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2208WK4	580-117295-1	8/24/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2208WK4	580-117295-1	8/24/2022	N																												1							Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2208WK4	580-117295-1	8/24/2022	N																	1																		Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN01B-2208WK4	580-117295-1	8/24/2022	N		1		1									1		1	1										1			1		1	1	1		Eurofins Seattle	No	No	No

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3520/3510	TPH-D/O+SGT-8015C+L-Lext+3520	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3/N - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrFl - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPOx™	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW04	RHMW04-WGFD01B-2208WK4	580-117295-1	8/24/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2208WK4	580-117295-1	8/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2208WK4	580-117295-1	8/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN01B-2208WK4	580-117295-1	8/24/2022	N		1		1									1			1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2208WK4	580-117295-1	8/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2208WK4	580-117295-1	8/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN01B-2208WK4	580-117295-1	8/24/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2208WK4	580-117295-1	8/24/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2208WK4	580-117295-1	8/24/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2208WK4	580-117295-1	8/24/2022	N		1											1		1	1										1		1		1	1			Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2208WK4	580-117295-1	8/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2208WK4	580-117295-1	8/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN01B-2208WK4	580-117295-1	8/24/2022	N		1											1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2208WK4	580-117295-1	8/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2208WK4	580-117247-1	8/25/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK4	580-117247-1	8/25/2022	N		1		1									1		1	1										1				1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK4	580-117247-1	8/25/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK4	580-117347-1	8/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW12A	RHMW12A-WGN01LF-2208WK4	580-117347-1	8/25/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2208WK4	580-117347-1	8/25/2022	N																											1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2208WK4	580-117347-1	8/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2208WK4	580-117347-1	8/25/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2208WK4	580-117347-1	8/25/2022	N																											1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK4	580-117347-1	8/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK4	580-117347-1	8/25/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK4	580-117347-1	8/25/2022	N																											1							Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK4	580-117347-1	8/25/2022	N																	1																	Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK4	580-117347-1	8/25/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK4	580-117347-1	8/25/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK5	580-117408-1	8/29/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK5	580-117408-1	8/29/2022	N		1		1									1		1	1														1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2208WK5	580-117408-1	8/29/2022	FD		1		1									1			1														1				Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK5	580-117408-1	8/29/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK5	580-117408-1	8/29/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK5	580-117408-1	8/29/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK5	580-117408-1	8/29/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK5	580-117408-1	8/29/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK5	580-117408-1	8/29/2022	N		1		1									1		1											1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2208WK5	580-117408-1	8/29/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK5	580-117408-1	8/29/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK5	580-117408-1	8/29/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2208WK5	580-117408-1	8/29/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2208WK5	580-117450-1	8/29/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2208WK5	580-117450-1	8/29/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2208WK5	580-117450-1	8/29/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2208WK5	580-117450-1	8/29/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2208WK5	580-117450-1	8/29/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2208WK5	580-117450-1	8/29/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK5	580-117453-1	8/30/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK5	580-117453-1	8/30/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2208WK5	580-117453-1	8/30/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK5	580-117486-1	8/30/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK5	580-117486-1	8/30/2022	N		1		1																						1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2208WK5	580-117486-1	8/30/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK5	580-117486-1	8/30/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK5	580-117486-1	8/30/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2208WK5	580-117486-1	8/30/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK5	580-117486-1	8/30/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK5	580-117486-1	8/30/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK5	580-117486-1	8/30/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2208WK5	580-117486-1	8/30/2022	N		1		1									1			1												1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK5	580-117486-1	8/30/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK5	580-117486-1	8/30/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2208WK5	580-117486-1	8/30/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK5	580-117453-1	8/30/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK5	580-117453-1	8/30/2022	N		1		1										1	1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK5	580-117453-1	8/30/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2208WK5	580-117486-1	8/31/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2208WK5	580-117486-1	8/31/2022	N		1											1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2208WK5	580-117486-1	8/31/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2208WK5	580-117487-1	8/31/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2208WK5	580-117487-1	8/31/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2208WK5	580-117487-1	8/31/2022	FD																																		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2208WK5	580-117487-1	8/31/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2208WK5	580-117487-1	8/31/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2208WK5	580-117487-1	8/31/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2208WK5	580-117487-1	8/31/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2208WK5	580-117487-1	8/31/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2208WK5	580-117487-1	8/31/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2208WK5	580-117487-1	8/31/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2208WK5	580-117487-1	8/31/2022	N																																		Eurofins Denver	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2208WK5	580-117487-1	8/31/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2208WK5	580-117487-1	8/31/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2208W5	580-117596-1	8/31/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2208WK5	580-117596-1	8/31/2022	N		1		1										1	1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2208WK5	580-117596-1	8/31/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK5	580-117607-1	8/31/2022	N																		1																Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK5	580-117607-1	8/31/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD01LF-2208WK5	580-117607-1	8/31/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK5	580-117607-1	8/31/2022	N																											1							Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2208WK5	580-117596-1	9/1/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK5	580-117596-1	9/1/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2208WK5	580-117596-1	9/1/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK5	580-117596-1	9/1/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK5	580-117596-1	9/1/2022	N		1		1									1		1	1														1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2208WK5	580-117596-1	9/1/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK5	580-117596-1	9/1/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK5	580-117596-1	9/1/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2208WK5	580-117596-1	9/1/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK5	580-117596-1	9/1/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK5	580-117596-1	9/1/2022	N																																		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK5	580-117607-1	9/1/2022	N																	1																	Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK5	580-117607-1	9/1/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2208WK5	580-117607-1	9/1/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK1	580-117637-1	9/6/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK1	580-117637-1	9/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2209WK1	580-117637-1	9/6/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK1	580-117637-1	9/6/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK1	580-117637-1	9/6/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK1	580-117637-1	9/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK1	580-117637-1	9/6/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2209WK1	580-117667-1	9/6/2022	N																	1																	Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2209WK1	580-117667-1	9/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2209WK1	580-117667-1	9/6/2022	N																																		Eurofins Seattle	No	No	No

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3510/3510	TPH-D/O+SGT-8015C+L-Lext+3520	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3/N - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW01R	RHMW01R-WGN01B-2209WK1	580-117667-1	9/6/2022	N																	1																		Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN01B-2209WK1	580-117667-1	9/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2209WK1	580-117667-1	9/6/2022	N																																		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2209WK1	580-117667-1	9/6/2022	N																																		Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN01B-2209WK1	580-117667-1	9/6/2022	N																																		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2209WK1	580-117667-1	9/6/2022	N																																		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2209WK1	580-117667-1	9/6/2022	N																	1																	Eurofins Denver	No	No	No
RHMW03	RHMW03-WGN01B-2209WK1	580-117667-1	9/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2209WK1	580-117667-1	9/6/2022	N																																		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2209WK1	580-117667-1	9/6/2022	N																	1																	Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN01B-2209WK1	580-117667-1	9/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2209WK1	580-117667-1	9/6/2022	N																																		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2209WK1	580-117675-1	9/7/2022	N																	1																	Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN01B-2209WK1	580-117675-1	9/7/2022	N		1		1									1		1	1										1								Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2209WK1	580-117675-1	9/7/2022	N																											1							Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2209WK1	580-117675-1	9/7/2022	N																	1																	Eurofins Denver	No	No	No
RHMW19	RHMW19-WGN01B-2209WK1	580-117675-1	9/7/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2209WK1	580-117675-1	9/7/2022	N																																		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2209WK1	580-117675-1	9/7/2022	N																	1																	Eurofins Denver	No	No	No
RHMW16	RHMW16-WGN01LF-2209WK1	580-117675-1	9/7/2022	N																																		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2209WK1	580-117675-1	9/7/2022	N																																		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2209WK1	580-117675-1	9/7/2022	N																	1																	Eurofins Denver	No	No	No
RHMW12A	RHMW12A-WGN01LF-2209WK1	580-117675-1	9/7/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2209WK1	580-117675-1	9/7/2022	N																											1							Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2209WK1	580-117706-1	9/7/2022	N																	1																	Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2209WK1	580-117706-1	9/7/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2209WK1	580-117706-1	9/7/2022	N																											1							Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2209WK1	580-117706-1	9/7/2022	N																	1																	Eurofins Denver	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2209WK1	580-117706-1	9/7/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2209WK1	580-117706-1	9/7/2022	N																											1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2209WK1	580-117706-1	9/8/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2209WK1	580-117706-1	9/8/2022	N		1		1									1		1	1										1	1	1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2209WK1	580-117706-1	9/8/2022	N																											1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK1	580-117706-1	9/8/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK1	580-117706-1	9/8/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK1	580-117706-1	9/8/2022	N																											1							Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK1	580-117706-1	9/8/2022	N																	1																	Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK1	580-117706-1	9/8/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK1	580-117706-1	9/8/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK1	580-117771-1	9/8/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK1	580-117771-1	9/8/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK1	580-117771-1	9/8/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK1	580-117771-1	9/8/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK1	580-117771-1	9/8/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD01LF-2209WK1	580-117771-1	9/8/2022	FD		1		1									1																		1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK1	580-117771-1	9/8/2022	N																											1							Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2209WK1	580-117798-1	9/9/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2209WK1	580-117798-1	9/9/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2209WK1	580-117798-1	9/9/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2209WK1	580-117771-1	9/9/2022	N																	1																	Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN01B-2209WK1	580-117771-1	9/9/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGFD01B-2209WK1	580-117771-1	9/9/2022	FD		1		1									1																		1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2209WK1	580-117771-1	9/9/2022	N																											1							Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2209WK1	580-117769-1	9/9/2022	N																	1																	Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN01B-2209WK1	580-117769-1	9/9/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2209WK1	580-117769-1	9/9/2022	N																											1							Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2209WK1	580-117769-1	9/9/2022	N																	1																	Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN01B-2209WK1	580-117769-1	9/9/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2209WK1	580-117769-1	9/9/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2209WK1	580-117769-1	9/9/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2209WK1	580-117769-1	9/9/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2209WK1	580-117769-1	9/9/2022	N																											1							Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2209WK1	580-117801-1	9/9/2022	N																	1																	Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN01B-2209WK1	580-117801-1	9/9/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2209WK1	580-117801-1	9/9/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK2	580-117801-1	9/12/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK2	580-117801-1	9/12/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGFD01LF-2209WK2	580-117801-1	9/12/2022	FD		1		1									1			1												1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK2	580-117801-1	9/12/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK2	580-117798-1	9/12/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK2	580-117798-1	9/12/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK2	580-117798-1	9/12/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2209WK2	580-117798-1	9/12/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2209WK2	580-117798-1	9/12/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2209WK2	580-117798-1	9/12/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2209WK2	580-117801-1	9/12/2022	N																	1																	Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN01B-2209WK2	580-117801-1	9/12/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2209WK2	580-117801-1	9/12/2022	N																																		Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2209WK2	580-117801-1	9/12/2022	N																	1																	Eurofins Denver	No	No	No
RHMW19	RHMW19-WGN01B-2209WK2	580-117801-1	9/12/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2209WK2	580-117801-1	9/12/2022	N																											1							Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2209WK2	580-117907-1	9/13/2022	N																	1																	Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN01B-2209WK2	580-117907-1	9/13/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2209WK2	580-117907-1	9/13/2022	N																											1							Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2209WK2	580-117880-1	9/13/2022	N																	1																	Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN01B-2209WK2	580-117880-1	9/13/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2209WK2	580-117880-1	9/13/2022	N																											1							Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2209WK2	580-117907-1	9/13/2022	N																	1																	Eurofins Denver	No	No	No
RHMW03	RHMW03-WGN01B-2209WK2	580-117907-1	9/13/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2209WK2	580-117907-1	9/13/2022	N																											1							Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2209WK2	580-117880-1	9/13/2022	N																	1																	Eurofins Denver	No	No	No
RHMW16	RHMW16-WGN01LF-2209WK2	580-117880-1	9/13/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2209WK2	580-117880-1	9/13/2022	N																											1							Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2209WK2	580-117907-1	9/13/2022	N																	1																	Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2209WK2	580-117907-1	9/13/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2209WK2	580-117907-1	9/13/2022	N																											1							Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2209WK2	580-117880-1	9/13/2022	N																	1																	Eurofins Denver	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2209WK2	580-117880-1	9/13/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2209WK2	580-117880-1	9/13/2022	N																											1							Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2209WK2	580-117880-1	9/13/2022	N																	1																	Eurofins Denver	No	No	No
RHMW12A	RHMW12A-WGN01LF-2209WK2	580-117880-1	9/13/2022	N		1		1											1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2209WK2	580-117880-1	9/13/2022	N																																		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2209WK2	580-117907-1	9/13/2022	N																	1																	Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN01B-2209WK2	580-117907-1	9/13/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2209WK2	580-117907-1	9/13/2022	N																											1							Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2209WK2	580-117905-1	9/14/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2209WK2	580-117905-1	9/14/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2209WK2	580-117905-1	9/14/2022	FD		1		1									1			1												1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2209WK2	580-117905-1	9/14/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2209WK2	580-117905-1	9/14/2022	N																	1																	Eurofins Denver	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2209WK2	580-117905-1	9/14/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2209WK2	580-117905-1	9/14/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2209WK2	580-117905-1	9/14/2022	N																	1																	Eurofns Denver	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2209WK2	580-117905-1	9/14/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3520/3510	TPH-D/O+SGT-8015C+L-Lext+3520	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/ClO3/Br4 - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrFl - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW08	RHMW08-WGN01B-2209WK2	580-117905-1	9/14/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2209WK2	580-117905-1	9/14/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2209WK2	580-117905-1	9/14/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2209WK2	580-117905-1	9/14/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2209WK2	580-117905-1	9/14/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2209WK2	580-117905-1	9/14/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2209WK2	580-117905-1	9/14/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2209WK2	580-117905-1	9/14/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2209WK2	580-117905-1	9/14/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2209WK2	580-117905-1	9/14/2022	N																											1								Eurrofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2209WK2	580-117960-1	9/15/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2209WK2	580-117960-1	9/15/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2209WK2	580-117960-1	9/15/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK2	580-117960-1	9/15/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK2	580-117960-1	9/15/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK2	580-117960-1	9/15/2022	N																	1																		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK2	580-117960-1	9/15/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK2	580-117960-1	9/15/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK2	580-117960-1	9/15/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK2	580-117960-1	9/15/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK2	580-117960-1	9/15/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK2	580-117960-1	9/15/2022	N																																			Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK2	580-117960-1	9/15/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK2	580-117960-1	9/15/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2209WK2	580-117960-1	9/15/2022	FD		1		1									1			1														1	1	1		Eurrofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK2	580-117960-1	9/15/2022	N																																			Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK3	580-118121-1	9/19/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK3	580-118121-1	9/19/2022	N		1		1									1		1	1										1		1		1				Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK3	580-118121-1	9/19/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2209WK3	580-118064-1	9/19/2022	N																	1																		Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2209WK3	580-118064-1	9/19/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2209WK3	580-118064-1	9/19/2022	N																											1								Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2209WK3	580-118121-1	9/19/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2209WK3	580-118121-1	9/19/2022	N		1		1									1		1	1										1		1		1				Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2209WK3	580-118121-1	9/19/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2209WK3	580-118121-1	9/19/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2209WK3	580-118121-1	9/19/2022	N		1		1									1		1	1												1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2209WK3	580-118121-1	9/19/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2209WK3	580-118158-1	9/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN01B-2209WK3	580-118158-1	9/20/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2209WK3	580-118158-1	9/20/2022	N																											1								Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2209WK3	580-118153-1	9/20/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2209WK3	580-118153-1	9/20/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2209WK3	580-118153-1	9/20/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2209WK3	580-118153-1	9/20/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2209WK3	580-118153-1	9/20/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2209WK3	580-118153-1	9/20/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2209WK3	580-118158-1	9/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2209WK3	580-118158-1	9/20/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2209WK3	580-118158-1	9/20/2022	N																											1								Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2209WK3	580-118153-1	9/20/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2209WK3	580-118153-1	9/20/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2209WK3	580-118153-1	9/20/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2209WK3	580-118153-1	9/20/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2209WK3	580-118153-1	9/20/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2209WK3	580-118153-1	9/20/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK3	580-118158-1	9/20/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK3	580-118158-1	9/20/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK3	580-118158-1	9/20/2022	N																																			Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK3	580-118187-1	9/21/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK3	580-118187-1	9/21/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2209WK3	580-118187-1	9/21/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK3	580-118187-1	9/21/2022	N																	1																		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2209WK3	580-118187-1	9/21/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2209WK3	580-118187-1	9/21/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2209WK3	580-118187-1	9/21/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2209WK3	580-118158-1	9/21/2022	N																	1																		Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN01B-2209WK3	580-118158-1	9/21/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2209WK3	580-118158-1	9/21/2022	N																											1								Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2209WK3	580-118158-1	9/21/2022	N																	1																		Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2209WK3	580-118158-1	9/21/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2209WK3	580-118158-1	9/21/2022	N																											1								Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2209WK3	580-118243-1	9/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2209WK3	580-118243-1	9/22/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2209WK3	580-118243-1	9/22/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2209WK3	580-118243-1	9/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2209WK3	580-118243-1	9/22/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2209WK3	580-118243-1	9/22/2022	N																											1								Eurofons Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK3	580-118243-1	9/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK3	580-118243-1	9/22/2022	N		1		1									1		1	1										1		1		1	1	1		Eurfons Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK3	580-118243-1	9/22/2022	N																											1								Eurfons Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK3	580-118248-1	9/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK3	580-118248-1	9/22/2022	N		1		1									1		1	1										1		1		1	1	1		Eurfons Seattle	Yes	Yes	Yes
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK3	580-118248-1	9/22/2022	N																	1																		Eurfons Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK3	580-118243-1	9/22/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK3	580-118243-1	9/22/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGFD01LF-2209WK3	580-118243-1	9/22/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK3	580-118243-1	9/22/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2209WK3	580-118258-1	9/23/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2209WK3	580-118258-1	9/23/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofns Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2209WK3	580-118258-1	9/23/2022	FD		1		1									1			1														1	1	1		Eurofns Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2209WK3	580-118258-1	9/23/2022	N																											1								Eurofns Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2209WK3	580-118258-1	9/23/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2209WK3	580-118258-1	9/23/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofns Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2209WK3	580-118258-1	9/23/2022	N																											1								Eurofns Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2209WK3	580-118258-1	9/23/2022	N		1		1									1																		1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2209WK3	580-118258-1	9/23/2022	N																	1																		Eurrofins Denver	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2209WK3	580-118258-1	9/23/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2209WK3	580-118258-1	9/23/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK4	580-118300-1	9/26/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK4	580-118300-1	9/26/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2209WK4	580-118300-1	9/26/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK4	580-118300-1	9/26/2022	N																																			Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK4	580-118257-1	9/26/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK4	580-118257-1	9/26/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK4	580-118257-1	9/26/2022	N																											1								Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2209WK4	580-118257-1	9/26/2022	N																	1																		Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2209WK4	580-118257-1	9/26/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2209WK4	580-118257-1	9/26/2022	N																											1								Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2209WK4	580-118300-1	9/26/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2209WK4	580-118300-1	9/26/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2209WK4	580-118300-1	9/26/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2209WK4	580-118300-1	9/26/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2209WK4	580-118300-1	9/26/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofns Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2209WK4	580-118300-1	9/26/2022	N																											1								Eurofns Seattle	Yes	Yes	Yes

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3510/3510	TPH-D/O+SGT-8015C+L-Lext+3520	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3X - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/ClO4/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW02	RHMW02-GW-S01-092722	MVA14905	9/27/2022	N																																			MVA Scientific Consultants	No	No	No
RHMW01R	RHMW01R-WGN01B-2209WK4	580-118344-1	9/27/2022	N																																			Eurofins Denver	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2209WK4	580-118344-1	9/27/2022	N																																			Eurofins Seattle	Yes	Yes	Yes
RHMW01R	RHMW01R-WGN01B-2209WK4	580-118344-1	9/27/2022	N																																			Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2209WK4	580-118344-1	9/27/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2209WK4	580-118344-1	9/27/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2209WK4	580-118344-1	9/27/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2209WK4	580-118344-1	9/27/2022	N																					1				1										Eurofins Seattle	Yes	Yes	Yes
RHMW02	RHMW02-WGN01B-2209WK4	580-118344-1	9/27/2022	N																																			Eurofins Denver	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2209WK4	580-118344-1	9/27/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2209WK4	580-118344-1	9/27/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW03	RHMW03-WGN01B-2209WK4	580-118344-1	9/27/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2209WK4	580-118302-1	9/27/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2209WK4	580-118302-1	9/27/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW16	RHMW16-WGN01LF-2209WK4	580-118302-1	9/27/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2209WK4	580-118344-1	9/27/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2209WK4	580-118344-1	9/27/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW11-05	RHMW11-05-WGN01G-2209WK4	580-118344-1	9/27/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2209WK4	580-118344-1	9/27/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2209WK4	580-118344-1	9/27/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW14-03	RHMW14-03-WGN01G-2209WK4	580-118344-1	9/27/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2209WK4	580-118302-1	9/27/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2209WK4	580-118302-1	9/27/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW12A	RHMW12A-WGN01LF-2209WK4	580-118302-1	9/27/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2209WK4	580-118344-1	9/27/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2209WK4	580-118344-1	9/27/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW05	RHMW05-WGN01B-2209WK4	580-118344-1	9/27/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2209WK4	580-118384-1	9/28/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2209WK4	580-118384-1	9/28/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGFD01B-2209WK4	580-118384-1	9/28/2022	FD		1		1									1			1														1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2209WK4	580-118384-1	9/28/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW04	RHMW04-WGN01B-2209WK4	580-118384-1	9/28/2022	N		1		1									1			1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2209WK4	580-118384-1	9/28/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2209WK4	580-118384-1	9/28/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW06	RHMW06-WGN01B-2209WK4	580-118384-1	9/28/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2209WK4	580-118384-1	9/28/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2209WK4	580-118384-1	9/28/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW08	RHMW08-WGN01B-2209WK4	580-118384-1	9/28/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2209WK4	580-118385-1	9/28/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2209WK4	580-118385-1	9/28/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGN01LF-2209WK4	580-118385-1	9/28/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
OWDFMW01	OWDFMW01-WGFD01LF-2209WK4	580-118385-1	9/28/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2209WK4	580-118384-1	9/28/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2209WK4	580-118384-1	9/28/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW17	RHMW17-WGN01B-2209WK4	580-118384-1	9/28/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2209WK4	580-118384-1	9/28/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2209WK4	580-118384-1	9/28/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2209WK4	580-118384-1	9/28/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW2254-01	RHMW2254-01-WGN01B-2209WK4	580-118383-1	9/29/2022	N																	1																		Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2209WK4	580-118383-1	9/29/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2209WK4	580-118383-1	9/29/2022	N																											1								Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK4	580-118383-1	9/29/2022	N																	1																		Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK4	580-118383-1	9/29/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK4	580-118383-1	9/29/2022	N																											1								Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK4	580-118383-1	9/29/2022	N																	1																		Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK4	580-118383-1	9/29/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2209WK4	580-118383-1	9/29/2022	N																											1								Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK4	580-118462-1	9/29/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK4	580-118462-1	9/29/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK4	580-118462-1	9/29/2022	N																											1								Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK4	580-118462-1	9/29/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK4	580-118462-1	9/29/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD01LF-2209WK4	580-118462-1	9/29/2022	FD		1		1									1			1														1	1	1			Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK4	580-118462-1	9/29/2022	N																											1								Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK1	580-118476-1	10/3/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK1	580-118476-1	10/3/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGFD01LF-2210WK1	580-118476-1	10/3/2022	FD		1		1									1			1														1	1	1			Eurofins Seattle	Yes	Yes	Yes
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK1	580-118476-1	10/3/2022	N																	1										1								Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK1	580-118476-1	10/3/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK1	580-118476-1	10/3/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK1	580-118476-1	10/3/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW09	RHMW09-WGN01B-2210WK1	580-118575-1	10/3/2022	N																	1																		Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN01B-2210WK1	580-118575-1	10/3/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2210WK1	580-118575-1	10/3/2022	N																											1								Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2210WK1	580-118476-1	10/3/2022	N																	1																		Eurofins Denver	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2210WK1	580-118476-1	10/3/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN01B-2210WK1	580-118476-1	10/3/2022	N																											1								Eurofins Seattle	Yes	Yes	Yes
RHMW19	RHMW19-WGN02B-2210WK1	FA99413	10/3/2022	N			1	1									1		1	1										1		1		1	1	1			SGS	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK1	580-118575-1	10/3/2022	N																	1																		Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK1	580-118575-1	10/3/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK1	580-118575-1	10/3/2022	N																											1								Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK1	580-118612-1	10/4/2022	N																	1																		Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK1	580-118612-1	10/4/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK1	580-118612-1	10/4/2022	N																											1								Eurofons Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2210WK1	580-118612-1	10/4/2022	N																	1																		Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN01B-2210WK1	580-118612-1	10/4/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2210WK1	580-118612-1	10/4/2022	N																											1								Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2210WK1	580-118611-1	10/4/2022	N																	1																		Eurofins Denver	No	No	No
RHMW03	RHMW03-WGN01B-2210WK1	580-118611-1	10/4/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2210WK1	580-118611-1	10/4/2022	N																											1								Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK1	580-118575-1	10/4/2022	N																	1																		Eurofins Denver	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK1	580-118575-1	10/4/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK1	580-118575-1	10/4/2022	N																											1								Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK1	580-118575-1	10/4/2022	N																	1																		Eurofins Denver	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK1	580-118575-1	10/4/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK1	580-118575-1	10/4/2022	N																											1								Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2210WK1	580-118612-1	10/4/2022	N																	1																		Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN01B-2210WK1	580-118612-1	10/4/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2210WK1	580-118612-1	10/4/2022	N																											1								Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK1	580-118612-1	10/5/2022	N																	1																		Eurofins Denver	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK1	580-118612-1	10/5/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK1	580-118612-1	10/5/2022	N																											1								Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2210WK1	580-118648-1	10/5/2022	N																	1																		Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN01B-2210WK1	580-118648-1	10/5/2022	N		1		1									1			1														1	1	1			Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGFD01B-2210WK1	580-118648-1	10/5/2022	FD																																			Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2210WK1	580-118648-1	10/5/2022	N																																			Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2210WK1	580-118648-1	10/5/2022	N																																			Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK1	580-118648-1	10/5/2022	N																	1																		Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN01B-2210WK1	580-118648-1	10/5/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK1	580-118648-1	10/5/2022	N																											1								Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK1	580-118648-1	10/5/2022	N		1		1									1			1														1	1	1			Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK1	580-118648-1	10/5/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK1	580-118648-1	10/5/2022	N		1		1									1		1	1										1		1		1	1	1			Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK1	580-118648-1	10/5/2022	N																											1								Eurofins Seattle	No	No	No

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3510/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3/N - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW17	RHMW17-WGN01B-2210WK1	580-118648-1	10/5/2022	N																	1																		Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN01B-2210WK1	580-118648-1	10/5/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2210WK1	580-118648-1	10/5/2022	N																											1							Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK1	580-118648-1	10/5/2022	N																	1																	Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK1	580-118648-1	10/5/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK1	580-118648-1	10/5/2022	N																											1							Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK1	580-118644-1	10/6/2022	N																	1																	Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN01B-2210WK1	580-118644-1	10/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK1	580-118644-1	10/6/2022	N																											1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK1	580-118644-1	10/6/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK1	580-118644-1	10/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK1	580-118644-1	10/6/2022	N																																		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK1	580-118644-1	10/6/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK1	580-118644-1	10/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK1	580-118644-1	10/6/2022	N																																		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK1	580-118644-1	10/6/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK1	580-118644-1	10/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK1	580-118644-1	10/6/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK1	580-118644-1	10/6/2022	N																	1																	Eurofons Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK1	580-118644-1	10/6/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD01LF-2210WK1	580-118644-1	10/6/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK1	580-118644-1	10/6/2022	N																											1							Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK1	580-118671-1	10/6/2022	N																	1																	Eurofns Denver	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2210WK1	580-118671-1	10/6/2022	N		1		1									1		1	1								1		1		1		1	1	1		Eurofins Seattle	Yes	Yes	Yes
RHMW13-05	RHMW13-05-WGN01G-2210WK1	580-118671-1	10/6/2022	N																											1							Eurofins Seattle	Yes	Yes	Yes
RHMW15-05	RHMW15-05-WGN01G-2210WK2	B22101062	10/10/2022	N			1	1									1		1	1								1										Energy	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK2	580-118764-1	10/10/2022	N																	1																	Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK2	580-118764-1	10/10/2022	N																											1			1	1	1		Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK2	B22101062	10/11/2022	N			1	1									1		1	1								1										Energy	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK2	580-118764-1	10/11/2022	N																	1																	Eurofins Denver	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK2	580-118764-1	10/11/2022	N																																		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK2	B22101304	10/12/2022	N			1	1									1		1	1								1						1				Energy	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK2	580-118777-1	10/12/2022	N																											1	1			1	1		Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK2	B22101304	10/12/2022	N			1	1									1		1	1								1										Energy	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK2	580-118777-1	10/12/2022	N																	1																	Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK2	580-118777-1	10/12/2022	N																											1	1			1	1		Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK2	B22101304	10/13/2022	N			1	1									1		1	1								1										Energy	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK2	580-118844-1	10/13/2022	N																	1																	Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK2	580-118844-1	10/13/2022	N																											1			1	1	1		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK2	B22101304	10/13/2022	N			1	1									1		1	1														1				Energy	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK2	580-118844-1	10/13/2022	N																	1																	Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK2	580-118844-1	10/13/2022	N																											1	1						Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK2	580-118941-1	10/14/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK2	580-118941-1	10/14/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGFD01LF-2210WK2	580-118941-1	10/14/2022	N		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK2	580-118941-1	10/14/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK2	580-118888-1	10/14/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK2	580-118888-1	10/14/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK2	580-118888-1	10/14/2022	N																											1							Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2210WK2	580-118888-1	10/14/2022	N																	1																	Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN01B-2210WK2	580-118888-1	10/14/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2210WK2	580-118888-1	10/14/2022	N																											1							Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2210WK2	580-118888-1	10/14/2022	N																	1																	Eurofins Denver	No	No	No
RHMW19	RHMW19-WGN01B-2210WK2	580-118888-1	10/14/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2210WK2	580-118888-1	10/14/2022	N																											1							Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2210WK2	580-118920-1	10/14/2022	N																	1																	Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN01B-2210WK2	580-118920-1	10/14/2022	N		1		1									1		1	1								1	1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2210WK2	580-118920-1	10/14/2022	N																											1							Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2210WK2	580-118941-1	10/14/2022	N																	1																	Eurofins Denver	No	No	No
RHMW03	RHMW03-WGN01B-2210WK2	580-118941-1	10/14/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2210WK2	580-118941-1	10/14/2022	N																											1							Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2210WK2	580-118920-1	10/14/2022	N																	1																	Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN01B-2210WK2	580-118920-1	10/14/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2210WK2	580-118920-1	10/14/2022	N																											1							Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK2	580-118920-1	10/14/2022	N																	1																	Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK2	580-118920-1	10/14/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK2	580-118920-1	10/14/2022	N																											1							Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN01B-2210WK2	580-118941-1	10/15/2022	N																	1																	Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN01B-2210WK2	580-118941-1	10/15/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins seattle	No	No	No
RHMW04	RHMW04-WGFD01B-2210WK2	580-118941-1	10/15/2022	N		1		1									1			1														1	1	1		Eurofins seattle	No	No	No
RHMW04	RHMW04-WGN01B-2210WK2	580-118941-1	10/15/2022	N																	1										1							Eurofins seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK2	580-118941-1	10/15/2022	N																	1																	Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN01B-2210WK2	580-118941-1	10/15/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK2	580-118941-1	10/15/2022	N																											1							Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK2	580-118941-1	10/15/2022	N		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK2	580-118920-1	10/15/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK2	580-118920-1	10/15/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK2	580-118920-1	10/15/2022	N																											1							Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2210WK2	580-118920-1	10/15/2022	N																	1																	Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN01B-2210WK2	580-118920-1	10/15/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2210WK2	580-118920-1	10/15/2022	N																											1							Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK2	580-118920-1	10/15/2022	N																	1																	Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN01B-2210WK2	580-118920-1	10/15/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK2	580-118920-1	10/15/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK2	580-118920-1	10/15/2022	N																	1																	Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK2	580-118920-1	10/15/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK2	580-118920-1	10/15/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK2	580-118941-1	10/15/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK2	580-118941-1	10/15/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD01LF-2210WK2	580-118941-1	10/15/2022	N		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK2	580-118941-1	10/15/2022	N																											1							Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK2	580-118941-1	10/16/2022	N																	1																	Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK2	580-118941-1	10/16/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK2	580-118941-1	10/16/2022	N																										1	1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK2	580-118941-1	10/16/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK2	580-118941-1	10/16/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK2	580-118941-1	10/16/2022	N																											1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK2	580-118941-1	10/16/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK2	580-118941-1	10/16/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK2	580-118941-1	10/16/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK3	580-118934-1	10/17/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK3	580-118934-1	10/17/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK3	580-118934-1	10/17/2022	N																											1							Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2210WK3	580-118934-1	10/17/2022	N																	1																	Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN01B-2210WK3	580-118934-1	10/17/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2210WK3	580-118934-1	10/17/2022	N																											1							Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2210WK3	580-118934-1	10/17/2022	N																	1																	Eurofins Denver	No	No	No
RHMW19	RHMW19-WGN01B-2210WK3	580-118934-1	10/17/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2210WK3	580-118934-1	10/17/2022	N																	1																	Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2210WK3	580-118934-1	10/17/2022	N																	1																	Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN01B-2210WK3	580-118934-1	10/17/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGFD01B-2210WK3	580-118934-1	10/17/2022	N		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2210WK3	580-118934-1	10/17/2022	N																											1							Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK3	580-118964-1	10/17/2022	N																	1																	Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN01B-2210WK3	580-118964-1	10/17/2022	N		1		1									1		1	1								1				1		1	1	1		Eurofins Seattle	No	No	No

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3630/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3/N - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4™	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW08	RHMW08-WGN01B-2210WK3	580-118964-1	10/17/2022	N																	1										1								Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK3	580-118934-1	10/17/2022	N																	1																		Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN01B-2210WK3	580-118934-1	10/17/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK3	580-118934-1	10/17/2022	N																											1								Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK3	580-118934-1	10/17/2022	N		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK3	580-118934-1	10/17/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK3	580-118934-1	10/17/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK3	580-118934-1	10/17/2022	N																											1								Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK3	580-118964-1	10/17/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK3	580-118964-1	10/17/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGFD01LF-2210WK3	580-118964-1	10/17/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK3	580-118964-1	10/17/2022	N																											1								Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK3	580-118964-1	10/17/2022	N																	1																		Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK3	580-118964-1	10/17/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK3	580-118964-1	10/17/2022	N																											1								Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK3	580-118964-1	10/17/2022	N																	1																		Eurofins Denver	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK3	580-118964-1	10/17/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK3	580-118964-1	10/17/2022	N																											1								Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK3	580-118964-1	10/17/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK3	580-118964-1	10/17/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD01LF-2210WK3	580-118964-1	10/17/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK3	580-118964-1	10/17/2022	N																											1								Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK3	580-118961-1	10/18/2022	N																	1																		Eurofins Denver	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK3	580-118961-1	10/18/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK3	580-118961-1	10/18/2022	N																											1								Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK3	580-118961-1	10/18/2022	N																	1																		Eurofins Denver	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK3	580-118961-1	10/18/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK3	580-118961-1	10/18/2022	N																											1								Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK3	580-118961-1	10/18/2022	N																	1																		Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK3	580-118961-1	10/18/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK3	580-118961-1	10/18/2022	N																											1								Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK3	580-118961-1	10/18/2022	N																	1																		Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK3	580-118961-1	10/18/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK3	580-118961-1	10/18/2022	N																											1								Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK3	580-118961-1	10/18/2022	N																	1																		Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK3	580-118961-1	10/18/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK3	580-118961-1	10/18/2022	N																											1								Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK3	580-119027-1	10/18/2022	N																	1																		Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK3	580-119027-1	10/18/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK3	580-119027-1	10/18/2022	N																											1								Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2210WK3	580-119027-1	10/18/2022	N																	1																		Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN01B-2210WK3	580-119027-1	10/18/2022	N		1		1									1		1	1												1		1	1	1		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2210WK3	580-119027-1	10/18/2022	N																											1								Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2210WK3	580-119027-1	10/18/2022	N																	1																		Eurofins Denver	No	No	No
RHMW03	RHMW03-WGN01B-2210WK3	580-119027-1	10/18/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2210WK3	580-119027-1	10/18/2022	N																											1								Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2210WK3	580-119027-1	10/18/2022	N																	1																		Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN01B-2210WK3	580-119027-1	10/18/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2210WK3	580-119027-1	10/18/2022	N																											1								Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK3	580-119014-1	10/19/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK3	580-119014-1	10/19/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK3	580-119014-1	10/19/2022	N																											1								Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2210WK3	580-119014-1	10/19/2022	N																	1																		Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN01B-2210WK3	580-119014-1	10/19/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2210WK3	580-119014-1	10/19/2022	N																											1								Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK3	580-119027-1	10/19/2022	N																	1																		Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK3	580-119027-1	10/19/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK3	580-119027-1	10/19/2022	N																											1								Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK3	580-119078-1	10/19/2022	N																	1																		Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK3	580-119078-1	10/19/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK3	580-119078-1	10/19/2022	N																											1								Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN02B-2210WK3	580-119014-1	10/19/2022	N																	1																		Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN02B-2210WK3	580-119014-1	10/19/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGFD02B-2210WK3	580-119014-1	10/19/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN02B-2210WK3	580-119014-1	10/19/2022	N																	1																		Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN02B-2210WK3	580-119014-1	10/19/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN02B-2210WK3	580-119014-1	10/19/2022	N																											1								Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN02B-2210WK3	580-119014-1	10/19/2022	N																	1																		Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN02B-2210WK3	580-119014-1	10/19/2022	N		1											1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN02B-2210WK3	580-119014-1	10/19/2022	N																											1								Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN02B-2210WK3	580-119014-1	10/19/2022	N		1											1			1									1					1	1	1		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN02B-2210WK3	580-119014-1	10/19/2022	N																	1																		Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN02B-2210WK3	580-119014-1	10/19/2022	N		1		1									1		1	1									1	1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN02B-2210WK3	580-119014-1	10/19/2022	N																										1	1								Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN02B-2210WK3	580-119014-1	10/19/2022	N																	1																		Eurofins Denver	No	No	No
RHMW19	RHMW19-WGN02B-2210WK3	580-119014-1	10/19/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN02B-2210WK3	580-119014-1	10/19/2022	N																											1								Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN02G-2210WK3	580-119078-1	10/19/2022	N																	1																		Eurofins Denver	No	No	No
RHMW14-03	RHMW14-03-WGN02G-2210WK3	580-119078-1	10/19/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN02G-2210WK3	580-119078-1	10/19/2022	N																											1								Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK3	580-119078-1	10/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK3	580-119078-1	10/20/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK3	580-119078-1	10/20/2022	N																											1								Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2210WK3	580-119078-1	10/20/2022	N																	1																		Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2210WK3	580-119078-1	10/20/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2210WK3	580-119078-1	10/20/2022	N																											1								Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02B-2210WK3	580-119078-1	10/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN02B-2210WK3	580-119078-1	10/20/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02B-2210WK3	580-119078-1	10/20/2022	N																											1								Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN02LF-2210WK3	580-119078-1	10/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW16	RHMW16-WGN02LF-2210WK3	580-119078-1	10/20/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN02LF-2210WK3	580-119078-1	10/20/2022	N																											1								Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN02B-2210WK3	580-119152-1	10/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN02B-2210WK3	580-119152-1	10/20/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN02B-2210WK3	580-119152-1	10/20/2022	N																											1								Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN02LF-2210WK3	580-119078-1	10/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW12A	RHMW12A-WGN02LF-2210WK3	580-119078-1	10/20/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN02LF-2210WK3	580-119078-1	10/20/2022	N																											1								Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN02B-2210WK3	580-119152-1	10/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN02B-2210WK3	580-119152-1	10/20/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN02B-2210WK3	580-119152-1	10/20/2022	N																											1								Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN02B-2210WK3	580-119152-1	10/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW03	RHMW03-WGN02B-2210WK3	580-119152-1	10/20/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN02B-2210WK3	580-119152-1	10/20/2022	N																											1								Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN02B-2210WK3	580-119152-1	10/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN02B-2210WK3	580-119152-1	10/20/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN02B-2210WK3	580-119152-1	10/20/2022	N																											1								Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN02G-2210WK3	580-119078-1	10/20/2022	N																	1																		Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN02G-2210WK3	580-119078-1	10/20/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN02G-2210WK3	580-119078-1	10/20/2022	N																											1								Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN02LF-2210WK3	580-119152-1	10/21/2022	N																	1																		Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN02LF-2210WK3	580-119152-1	10/21/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN02LF-2210WK3	580-119152-1	10/21/2022	N																											1								Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN02G-2210WK3	580-119111-1	10/21/2022	N																	1																		Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN02G-2210WK3	580-119111-1	10/21/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3630/3510	TPH-D/O+SGT-8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/ClO3/Br4 - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrFl - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4™	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW13-05	RHMW13-05-WGN02G-2210WK3	580-119111-1	10/21/2022	N																											1							Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN02G-2210WK3	580-119163-1	10/21/2022	N																	1																	Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN02G-2210WK3	580-119163-1	10/21/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN02G-2210WK3	580-119163-1	10/21/2022	N																											1							Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN02B-2210WK3	580-119111-1	10/21/2022	N																	1																	Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN02B-2210WK3	580-119111-1	10/21/2022	N		1		1									1		1	1								1	1		1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN02B-2210WK3	580-119111-1	10/21/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK3	580-119111-1	10/21/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK3	580-119111-1	10/21/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK3	580-119111-1	10/21/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK3	580-119111-1	10/21/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK3	580-119111-1	10/21/2022	N		1		1									1		1	1										1		1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD02LF-2210WK3	580-119111-1	10/21/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK3	580-119111-1	10/21/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK3	580-119111-1	10/21/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK3	580-119111-1	10/21/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK3	580-119111-1	10/21/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK3	580-119163-1	10/21/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK3	580-119163-1	10/21/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGFD02LF-2210WK3	580-119163-1	10/21/2022	FD																														1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK3	580-119163-1	10/21/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK4	580-119162-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK4	580-119162-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK4	580-119162-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK4	580-119481-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK4	580-119481-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK4	580-119481-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD01LF-2210WK4	580-119162-1	10/24/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK4	580-119162-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK4	580-119162-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK4	580-119162-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGFD01B-2210WK4	580-119293-1	10/24/2022	FD		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2210WK4	580-119293-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN01B-2210WK4	580-119293-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2210WK4	580-119293-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK4	580-119293-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN01B-2210WK4	580-119293-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK4	580-119293-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2210WK4	580-119162-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN01B-2210WK4	580-119162-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2210WK4	580-119162-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK4	580-119293-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK4	580-119293-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK4	580-119293-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK4	580-119162-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK4	580-119162-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK4	580-119162-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK4	580-119162-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK4	580-119162-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK4	580-119162-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK4	580-119162-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK4	580-119162-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK4	580-119162-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2210WK4	580-119162-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW19	RHMW19-WGN01B-2210WK4	580-119162-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2210WK4	580-119162-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK4	580-119293-1	10/24/2022	N																	1																	Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN01B-2210WK4	580-119293-1	10/24/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK4	580-119293-1	10/24/2022	N																											1							Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK4	580-119316-1	10/25/2022	N																	1																	Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK4	580-119316-1	10/25/2022	N		1		1									1		1	1								1	1		1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK4	580-119316-1	10/25/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK4	580-119316-1	10/25/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK4	580-119316-1	10/25/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK4	580-119316-1	10/25/2022	N																											1							Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK4	580-119339-1	10/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK4	580-119339-1	10/25/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK4	580-119339-1	10/25/2022	N																											1							Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2210WK4	580-119339-1	10/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN01B-2210WK4	580-119339-1	10/25/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2210WK4	580-119339-1	10/25/2022	N																											1							Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2210WK4	580-119339-1	10/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW03	RHMW03-WGN01B-2210WK4	580-119339-1	10/25/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2210WK4	580-119339-1	10/25/2022	N																											1							Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2210WK4	580-119339-1	10/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN01B-2210WK4	580-119339-1	10/25/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2210WK4	580-119339-1	10/25/2022	N																											1							Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK4	580-119316-1	10/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK4	580-119316-1	10/25/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK4	580-119316-1	10/25/2022	N																											1							Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2210WK4	580-119316-1	10/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN01B-2210WK4	580-119316-1	10/25/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2210WK4	580-119316-1	10/25/2022	N																											1							Eurofins Seattle	No	No	No
RHMW2254	RHMW2254-01-WGN01B-2210WK4	580-119316-1	10/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK4	580-119316-1	10/25/2022	N		1		1									1		1	1											1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK4	580-119316-1	10/25/2022	N																											1							Eurofins Seattle	No	No	No
RHMW2254	RHMW2254-01-WGN01LF-2210WK4	580-119316-1	10/25/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254	RHMW2254-01-WGN01LF-2210WK4	580-119316-1	10/25/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254	RHMW2254-01-WGN01LF-2210WK4	580-119316-1	10/25/2022	N																	1																	Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGFD01LF-2210WK4	580-119371-1	10/26/2022	N		1		1									1			1														1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK4	580-119371-1	10/26/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK4	580-119371-1	10/26/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK4	580-119371-1	10/26/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK4	580-119371-1	10/26/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK4	580-119371-1	10/26/2022	N																											1							Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN02B-2210WK4	580-119371-1	10/26/2022	N																	1																	Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN02B-2210WK4	580-119371-1	10/26/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN02B-2210WK4	580-119371-1	10/26/2022	N																											1							Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN02B-2210WK4	580-119371-1	10/26/2022	N																	1																	Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN02B-2210WK4	580-119371-1	10/26/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN02B-2210WK4	580-119371-1	10/26/2022	N																											1							Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN02B-2210WK4	580-119371-1	10/26/2022	N																	1																	Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN02B-2210WK4	580-119371-1	10/26/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN02B-2210WK4	580-119371-1	10/26/2022	N																											1							Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN02B-2210WK4	580-119342-1	10/26/2022	N																	1																	Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN02B-2210WK4	580-119342-1	10/26/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN02B-2210WK4	580-119342-1	10/26/2022	N																											1							Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK4	580-119371-1	10/26/2022	N																	1																	Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK4	580-119371-1	10/26/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK4	580-119371-1	10/26/2022	N																											1							Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN02G-2210WK4	580-119371-1	10/26/2022	N																	1																	Eurofins Denver	No	No	No
RHMW14-03	RHMW14-03-WGN02G-2210WK4	580-119371-1	10/26/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN02G-2210WK4	580-119371-1	10/26/2022	N																											1							Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN02B-2210WK4	580-119342-1	10/26/2022	N																	1																	Eurofins Denver	No	No	No
RHMW19	RHMW19-WGN02B-2210WK4	580-119342-1	10/26/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT- 8015C+3510/3510	TPH-D/O+SGT- 8015C+L-Lext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3/N - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4™	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW19	RHMW19-WGN02B-2210WK4	580-119342-1	10/26/2022	N																											1							Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2210WK4	580-119363-1	10/27/2022	N																	1																	Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2210WK4	580-119363-1	10/27/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2210WK4	580-119363-1	10/27/2022	N																											1							Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN02B-2210WK4	580-119430-1	10/27/2022	N																	1																	Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN02B-2210WK4	580-119430-1	10/27/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN02B-2210WK4	580-119430-1	10/27/2022	N																											1							Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN02B-2210WK4	580-119481-1	10/27/2022	N																	1																	Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN02B-2210WK4	580-119481-1	10/27/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN02B-2210WK4	580-119481-1	10/27/2022	N																											1							Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN02B-2210WK4	580-119430-1	10/27/2022	N																	1																	Eurofins Denver	No	No	No
RHMW03	RHMW03-WGN02B-2210WK4	580-119430-1	10/27/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN02B-2210WK4	580-119430-1	10/27/2022	N																											1							Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN02B-2210WK4	580-119430-1	10/27/2022	N																	1																	Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN02B-2210WK4	580-119430-1	10/27/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN02B-2210WK4	580-119430-1	10/27/2022	N																											1							Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN02LF-2210WK4	580-119363-1	10/27/2022	N																		1																Eurofins Denver	No	No	No
RHMW12A	RHMW12A-WGN02LF-2210WK4	580-119363-1	10/27/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN02LF-2210WK4	580-119363-1	10/27/2022	N																											1							Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN02G-2210WK4	580-119363-1	10/27/2022	N																	1																	Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN02G-2210WK4	580-119363-1	10/27/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN02G-2210WK4	580-119363-1	10/27/2022	N																											1							Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN02LF-2210WK4	580-119363-1	10/27/2022	N																	1																	Eurofins Denver	No	No	No
RHMW16	RHMW16-WGN02LF-2210WK4	580-119363-1	10/27/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN02LF-2210WK4	580-119363-1	10/27/2022	N																											1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02B-2210WK4	580-119363-1	10/27/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN02B-2210WK4	580-119363-1	10/27/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02B-2210WK4	580-119363-1	10/27/2022	N																											1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK4	580-119363-1	10/27/2022	N																	1																	Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK4	580-119363-1	10/27/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK4	580-119363-1	10/27/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN02LF-2210WK4	580-119430-1	10/28/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN02LF-2210WK4	580-119430-1	10/28/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN02LF-2210WK4	580-119430-1	10/28/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGFD02LF-2210WK4	580-119483-1	10/28/2022	FD		1		1									1			1													1	1	1			Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK4	580-119483-1	10/28/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK4	580-119483-1	10/28/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK4	580-119483-1	10/28/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK4	580-119483-1	10/28/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK4	580-119483-1	10/28/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK4	580-119483-1	10/28/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD02LF-2210WK4	580-119430-1	10/28/2022	FD		1		1									1			1													1	1	1			Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK4	580-119430-1	10/28/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK4	580-119430-1	10/28/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK4	580-119430-1	10/28/2022	N																	1																	Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN02G-2210WK4	580-119483-1	10/28/2022	N																	1																	Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN02G-2210WK4	580-119483-1	10/28/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN02G-2210WK4	580-119483-1	10/28/2022	N																											1							Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN02G-2210WK4	580-119483-1	10/28/2022	N																	1																	Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN02G-2210WK4	580-119483-1	10/28/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN02G-2210WK4	580-119483-1	10/28/2022	N																											1							Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN02B-2210WK4	580-119430-1	10/28/2022	N																	1																	Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN02B-2210WK4	580-119430-1	10/28/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN02B-2210WK4	580-119430-1	10/28/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGFD01LF-2210WK5	580-119483-1	10/31/2022	FD		1		1									1			1													1	1	1			Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N																	1																	Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N		1		1									1		1	1									1			1		1	1			Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N																	1																	Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N		1		1										1	1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK5	580-119483-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
RHMW04	RHMW04-WGFD01B-2210WK5	580-119523-1	10/31/2022	FD		1		1									1			1													1	1	1			Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2210WK5	580-119523-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN01B-2210WK5	580-119523-1	10/31/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN01B-2210WK5	580-119523-1	10/31/2022	N																											1							Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK5	580-119523-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN01B-2210WK5	580-119523-1	10/31/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN01B-2210WK5	580-119523-1	10/31/2022	N																	1																	Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK5	580-119523-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN01B-2210WK5	580-119523-1	10/31/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK5	580-119523-1	10/31/2022	N		1		1									1			1													1	1	1			Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN01B-2210WK5	580-119523-1	10/31/2022	N																											1							Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2210WK5	580-119523-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN01B-2210WK5	580-119523-1	10/31/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN01B-2210WK5	580-119523-1	10/31/2022	N																	1																	Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK5	580-119483-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK5	580-119483-1	10/31/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN01G-2210WK5	580-119483-1	10/31/2022	N																											1							Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-FD01LF-2210WK5	580-119483-1	10/31/2022	FD		1		1										1		1													1	1	1			Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK5	580-119523-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK5	580-119523-1	10/31/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN01G-2210WK5	580-119523-1	10/31/2022	N																											1							Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2210WK5	580-119523-1	10/31/2022	N																	1																	Eurofins Denver	No	No	No
RHMW19	RHMW19-WGN01B-2210WK5	580-119523-1	10/31/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN01B-2210WK5	580-119523-1	10/31/2022	N																	1																	Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK5	580-119528-1	11/1/2022	N																	1																	Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK5	580-119528-1	11/1/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2210WK5	580-119528-1	11/1/2022	N																											1							Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK5	580-119618-1	11/1/2022	N																	1																	Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK5	580-119618-1	11/1/2022	N		1		1									1		1	1												1		1	1			Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN01B-2210WK5	580-119618-1	11/1/2022	N																											1							Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2210WK5	580-119618-1	11/1/2022	N																	1																	Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN01B-2210WK5	580-119618-1	11/1/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN01B-2210WK5	580-119618-1	11/1/2022	N																											1							Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2210WK5	580-119618-1	11/1/2022	N																	1																	Eurofins Denver	No	No	No
RHMW03	RHMW03-WGN01B-2210WK5	580-119618-1	11/1/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN01B-2210WK5	580-119618-1	11/1/2022	N																	1																	Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2210WK5	580-119618-1	11/1/2022	N																	1																	Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN01B-2210WK5	580-119618-1	11/1/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN01B-2210WK5	580-119618-1	11/1/2022	N																	1																	Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK5	580-119528-1	11/1/2022	N																	1																	Eurofins Denver	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK5	580-119528-1	11/1/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN01LF-2210WK5	580-119528-1	11/1/2022	N																	1																	Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK5	580-119528-1	11/1/2022	N																	1																	Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK5	580-119528-1	11/1/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN01G-2210WK5	580-119528-1	11/1/2022	N																	1																	Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK5	580-119528-1	11/1/2022	N																	1																	Eurofins Denver	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK5	580-119528-1	11/1/2022	N		1		1									1		1	1									1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN01LF-2210WK5	580-119528-1	11/1/2022	N																	1																	Eurofins Seattle	No	No	No

Table B.1: Summary of Analytical Program for Groundwater and Drinking Water Samples Collected between May 12, 2021 and November 4, 2022 (cont'd)

Sample Location Identifier	COC Identifier/ Project ID	SDG	Sample Collection Date	QC Type	BTEX 8260C	TPH-G 8260C	TPH-G 8015	TPH-D/O - 8015C, 3510 ext	TPH-d - 8015	TPH-D/O - 8015C, 3520 ext	PAH - 8270D SIM/3510	PAH 8270D SIM L-L ext	SVOC 8270D CID + TIC	Phenol 8270D	2-(2-methoxyethoxy) -ethanol - Lab	2-(2-butoxyethoxy) -ethanol - Lab	TPH-D/O+SGT-8015C+3630/3510	TPH-D/O+SGT-8015C+L-Ext+3630	EDB - 8011	DCA - 8260C	Methane - RSK175M	Ferrous Iron - SM3500Fe	NO2/NO3N - 300.0	Nitrate-nitrite as N by 353.2	Alk (Total, Bi, Carb) - SM2320	D.Silica - SM4500	T.Silica - SM4500	Total Ca,Mg,Mn,K,Na - 6010	NO2/Cl/SO4/BrF/I - 300.0	TOC	Total Ca,Fe,Pb,Mg,Mg,K,Na - 6010	Dissolved Pb - 6010	Total Pb - 6010	Dissolved PrPO4	VOCs full list - 8260C	SVOCs full list - 8270D	PAHs full list - 8270D SIM	PFAS Draft 1633	Laboratory	Level II Data Package	Level IV Data Package	Final Validation Report
RHMW17	RHMW17-WGN01B-2210WK5	580-119618-1	11/1/2022	N																	1																		Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN01B-2210WK5	580-119618-1	11/1/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN01B-2210WK5	580-119618-1	11/1/2022	N																										1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK5	580-119528-1	11/1/2022	N																	1																Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK5	580-119528-1	11/1/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01B-2210WK5	580-119528-1	11/1/2022	N																										1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK5	580-119528-1	11/1/2022	N																	1																Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK5	580-119528-1	11/1/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK5	580-119528-1	11/1/2022	N																										1							Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK5	580-119623-1	11/2/2022	N																	1																Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK5	580-119623-1	11/2/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN01LF-2210WK5	580-119623-1	11/2/2022	N																										1							Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN02B-2210WK5	580-119623-1	11/2/2022	N																	1																Eurofins Denver	No	No	No
RHMW04	RHMW04-WGN02B-2210WK5	580-119623-1	11/2/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGFD02B-2210WK5	580-119623-1	11/2/2022	FD		1		1									1			1													1	1	1		Eurofins Seattle	No	No	No
RHMW04	RHMW04-WGN02B-2210WK5	580-119623-1	11/2/2022	N																										1							Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN02B-2210WK5	580-119623-1	11/2/2022	N																	1																Eurofins Denver	No	No	No
RHMW06	RHMW06-WGN02B-2210WK5	580-119623-1	11/2/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW06	RHMW06-WGN02B-2210WK5	580-119623-1	11/2/2022	N																										1							Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN02B-2210WK5	580-119623-1	11/2/2022	N																	1																Eurofins Denver	No	No	No
RHMW08	RHMW08-WGN02B-2210WK5	580-119623-1	11/2/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW08	RHMW08-WGN02B-2210WK5	580-119623-1	11/2/2022	N																										1							Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN02B-2210WK5	580-119623-1	11/2/2022	N																	1																Eurofins Denver	No	No	No
RHMW09	RHMW09-WGN02B-2210WK5	580-119623-1	11/2/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW09	RHMW09-WGN02B-2210WK5	580-119623-1	11/2/2022	N																										1							Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK5	580-119659-1	11/2/2022	N																	1																Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK5	580-119659-1	11/2/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN01G-2210WK5	580-119659-1	11/2/2022	N																										1							Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN02G-2210WK5	580-119623-1	11/2/2022	N																	1																Eurofins Denver	No	No	No
RHMW14-03	RHMW14-03-WGN02G-2210WK5	580-119623-1	11/2/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW14-03	RHMW14-03-WGN02G-2210WK5	580-119623-1	11/2/2022	N																										1								No	No	No
RHMW19	RHMW19-WGN02B-2210WK5	580-119659-1	11/2/2022	N																	1																Eurofins Denver	No	No	No
RHMW19	RHMW19-WGN02B-2210WK5	580-119659-1	11/2/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW19	RHMW19-WGN02B-2210WK5	580-119659-1	11/2/2022	N																										1							Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2210WK5	580-119659-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2210WK5	580-119659-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2210WK5	580-119659-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN02LF-2210WK5	580-119659-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
RHMW12A	RHMW12A-WGN02LF-2210WK5	580-119659-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW12A	RHMW12A-WGN02LF-2210WK5	580-119659-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN02LF-2210WK5	580-119659-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
RHMW16	RHMW16-WGN02LF-2210WK5	580-119659-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW16	RHMW16-WGN02LF-2210WK5	580-119659-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN02B-2210WK5	580-119659-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
RHMW17	RHMW17-WGN02B-2210WK5	580-119659-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW17	RHMW17-WGN02B-2210WK5	580-119659-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02B-2210WK5	580-119659-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN02B-2210WK5	580-119659-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02B-2210WK5	580-119659-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK5	580-119659-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK5	580-119659-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK5	580-119659-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN02B-2210WK5	580-119733-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
RHMW01R	RHMW01R-WGN02B-2210WK5	580-119733-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW01R	RHMW01R-WGN02B-2210WK5	580-119733-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN02B-2210WK5	580-119733-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
RHMW02	RHMW02-WGN02B-2210WK5	580-119733-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW02	RHMW02-WGN02B-2210WK5	580-119733-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN02B-2210WK5	580-119733-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
RHMW03	RHMW03-WGN02B-2210WK5	580-119733-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW03	RHMW03-WGN02B-2210WK5	580-119733-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN02B-2210WK5	580-119733-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
RHMW05	RHMW05-WGN02B-2210WK5	580-119733-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW05	RHMW05-WGN02B-2210WK5	580-119733-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN02G-2210WK5	580-119733-1	11/3/2022	N																	1																Eurofins Denver	No	No	No
RHMW15-05	RHMW15-05-WGN02G-2210WK5	580-119733-1	11/3/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
RHMW15-05	RHMW15-05-WGN02G-2210WK5	580-119733-1	11/3/2022	N																										1							Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN02LF-2210WK5	580-119804-2	11/4/2022	N																																	Eurofins Denver	No	No	No
OWDFMW01	OWDFMW01-WGN02LF-2210WK5	580-119804-2	11/4/2022	N																																	Eurofins Seattle	No	No	No
OWDFMW01	OWDFMW01-WGN02LF-2210WK5	580-119804-2	11/4/2022	N																																	Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGFD02LF-2210WK5	580-119745-1	11/4/2022	N		1		1									1			1													1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N																	1																Eurofins Denver	No	No	No
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK5	580-119745-1	11/4/2022	FD		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N																										1							Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N																	1																Eurofins Denver	No	No	No
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N																										1							Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N																	1																Eurofins Denver	No	No	No
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N																										1							Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGFD02LF-2210WK5	580-119745-1	11/4/2022	FD		1		1									1			1													1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N																	1																Eurofins Denver	No	No	No
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N		1		1									1		1	1								1			1		1	1	1		Eurofins Seattle	No	No	No
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK5	580-119745-1	11/4/2022	N																										1							Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN02G-2210WK5	580-119804-1	11/4/2022	N																																	Eurofins Denver	No	No	No
RHMW11-05	RHMW11-05-WGN02G-2210WK5	580-119804-1	11/4/2022	N																																	Eurofins Seattle	No	No	No
RHMW11-05	RHMW11-05-WGN02G-2210WK5	580-119804-1	11/4/2022	N																																	Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN02G-2210WK5	580-119804-1	11/4/2022	N																																	Eurofins Denver	No	No	No
RHMW13-05	RHMW13-05-WGN02G-2210WK5	580-119804-1	11/4/2022	N																																	Eurofins Seattle	No	No	No
RHMW13-05	RHMW13-05-WGN02G-2210WK5	580-119804-1	11/4/2022	N																																	Eurofins Seattle	No	No	No

1	Identifies the number of analyses conducted
—	not analyzed
APPL	Agriculture and Priority Pollutants Laboratories, Inc.
BTEX	benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260 C
COC	chain of custody
Energy	Energy Laboratories
L-L Ext	liquid/liquid extraction
NOI	Notice of Interest
PAH	polynuclear aromatic hydrocarbon
PFAS	per- and polyfluoroalkyl substances
RHSF	Red Hill Shaft Well 2254-01
SDG	sample delivery group
SGC	silica gel cleanup (i.e., silica gel treatment [SGT])
SIM	selected ion monitoring
SVOC	semivolatile organic compound by EPA Method 8260D
TIC	tentatively identified compound
TOC	total organic carbon
TPH-g	total petroleum hydrocarbons - gasoline range organics (C6–C10) by EPA Method 8260 C
TPH-d	total petroleum hydrocarbons - diesel range organics (C10–C24) by EPA Method 8015C
TPH-o	total petroleum hydrocarbons - oil range organics (C24–C40) by EPA Method 8015C
QC Type	Quality Control Sample Type
N	normal environmental sample
FD	field duplicate

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Appendix B.2 – Summary of Free Product Gauging and Monitoring Well Headspace Measurements

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Appendix B.2.1 – AOC Oil/Water Interface Measurements, January 2014 through October 2022

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Red Hill Oil/Water Interface Measurements January 2014 to Present

	RHMW01			RHMW01R			RHMW02			RHMW03			RHMW05		
	Elevation = 101.9955 ft[1]			Elevation = 101.7570 ft			Elevation = 104.5970 ft[1]			Elevation = 120.8980 ft[1]			Elevation = 101.3102 ft[1]		
Date	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL
15-Jan-14	83.94	18.06	0				86.62	17.98	0	NT	NT	NT	NT	NT	NT
16-Jan-14	NT	NT	NT				NT	NT	NT	NT	NT	NT	83.09	18.22	0
22-Jan-14	83.53	18.47	0				86.20	18.40	0	NT	NT	NT	82.87	18.44	0
23-Jan-14	83.58	18.42	0				86.24	18.36	0	NT	NT	NT	82.94	18.37	0
24-Jan-14	83.57	18.43	0				86.23	18.37	0	NT	NT	NT	82.93	18.38	0
27-Jan-14	83.55	18.45	0				86.23	18.37	0	NT	NT	NT	82.93	18.38	0
28-Jan-14	83.56	18.44	0				86.25	18.35	0	102.52	18.38	0	82.94	18.37	0
29-Jan-14	83.56	18.44	0				86.22	18.38	0	NT	NT	NT	82.94	18.37	0
30-Jan-14	83.53	18.47	0				86.21	18.39	0	NT	NT	NT	82.93	18.38	0
31-Jan-14	83.53	18.47	0				86.19	18.41	0	NT	NT	NT	82.88	18.43	0
3-Feb-14	83.54	18.46	0				86.20	18.40	0	NT	NT	NT	82.91	18.40	0
4-Feb-14	83.54	18.46	0				86.20	18.40	0	NT	NT	NT	82.89	18.42	0
10-Feb-14	84.49	17.51	0				86.16	18.44	0	102.47	18.43	0	82.83	18.48	0
24-Feb-14	83.54	18.46	0				86.24	18.36	0	102.47	18.43	0	82.97	18.34	0
4-Mar-14*	NT	NT	NT				NT	NT	NT	NT	NT	NT	NT	NT	NT
13-Mar-14*	NT	NT	NT				NT	NT	NT	NT	NT	NT	NT	NT	NT
28-Mar-14	83.76	18.24	0				86.42	18.18	0	102.65	18.25	0	83.18	18.13	0
7-Apr-14*	83.42	18.58	0				86.43	18.17	0	NT	NT	NT	83.21	18.10	0
21-Apr-14	83.93	18.07	0				86.58	18.02	0	102.80	18.10	0	83.27	18.04	0
8-May-14*	84.03	17.97	0				86.68	17.92	0	NT	NT	NT	83.46	17.85	0
22-May-14*	83.81	18.19	0				86.47	18.13	0	NT	NT	NT	83.15	18.16	0
27-May-14	83.91	18.09	0				86.60	18.00	0	102.85	18.05	0	83.31	18.00	0
10-Jun-14*	83.93	18.07	0				86.55	18.05	0	NT	NT	NT	83.34	17.97	0
23-Jun-14	84.06	17.94	0				86.72	17.88	0	103.99	16.91	0	83.54	17.77	0
21-Jul-14	84.13	17.87	0				86.80	17.80	0	102.98	17.92	0	83.49	17.82	0
27-Aug-14	84.01	17.99	0				86.65	17.95	0	102.87	18.03	0	83.04	18.27	0
25-Sep-14	84.64	17.36	0				87.27	17.33	0	103.51	17.39	0	84.10	17.21	0
28-Oct-14	83.79	18.21	0				86.51	18.09	0	102.78	18.12	0	83.21	18.10	0
20-Nov-14	83.87	18.13	0				86.56	18.04	0	102.78	18.12	0	83.35	17.96	0
23-Dec-14	83.67	18.33	0				86.37	18.23	0	102.64	18.26	0	83.05	18.26	0
28-Jan-15	83.63	18.37	0				86.35	18.25	0	102.63	18.27	0	83.03	18.28	0
27-Feb-15	83.68	18.32	0				86.28	18.32	0	102.52	18.38	0	83.06	18.25	0
26-Mar-15	83.83	18.17	0				86.04	18.56	0	102.79	18.11	0	83.24	18.07	0
21-Apr-15	84.33	17.67	0				86.97	17.63	0	103.18	17.72	0	83.72	17.59	0
28-May-15	84.29	17.71	0				86.97	17.63	0	103.24	17.66	0	83.95	17.36	0
25-Jun-15	84.58	17.42	0				87.28	17.32	0	103.57	17.33	0	83.75	17.56	0

Red Hill Oil/Water Interface Measurements January 2014 to Present

	RHMW01			RHMW01R			RHMW02			RHMW03			RHMW05		
	Elevation = 101.9955 ft[1]			Elevation = 101.7570 ft			Elevation = 104.5970 ft[1]			Elevation = 120.8980 ft[1]			Elevation = 101.3102 ft[1]		
Date	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL
21-Jul-15	84.58	17.42	0				87.24	17.36	0	103.44	17.46	0	83.76	17.55	0
27-Aug-15	84.44	17.56	0				87.13	17.47	0	103.41	17.49	0	83.69	17.62	0
23-Sep-15	84.26	17.74	0				86.94	17.66	0	103.21	17.69	0	83.63	17.68	0
20-Oct-15	84.00	18.00	0				86.38	18.22	0	103.38	17.52	0	Obstructed	NT	NT
18-Nov-15	84.25	17.75	0				86.93	17.67	0	103.24	17.66	0	84.62[2]	16.69	0
17-Dec-15	83.76	18.24	0				86.36	18.24	0	102.56	18.34	0	83.18	18.13	0
20-Jan-16	83.31	18.69	0				85.97	18.63	0	102.21	18.69	0	Obstructed	NT	NT
17-Feb-16	83.17	18.83	0				85.81	18.79	0	102.10	18.80	0	Obstructed	NT	NT
15-Mar-16	82.89	19.11	0				85.60	19.00	0	101.82	19.08	0	82.26	19.05	0
20-Apr-16	82.97	19.03	0				85.63	18.97	0	101.91	18.99	0	82.31	19.00	0
23-May-16	83.14	18.86	0				85.81	18.79	0	102.03	18.87	0	82.50	18.81	0
21-Jun-16	83.16	18.84	0				85.77	18.83	0	102.03	18.87	0	82.54	18.77	0
20-Jul-16	83.32	18.68	0				85.99	18.61	0	102.31	18.59	0	82.63	18.68	0
23-Aug-16	83.27	18.73	0				85.96	18.64	0	102.20	18.70	0	82.63	18.68	0
21-Sep-16	83.13	18.87	0				85.74	18.86	0	102.06	18.84	0	82.44	18.87	0
19-Oct-16	83.01	18.99	0				85.69	18.91	0	101.95	18.95	0	82.39	18.92	0
17-Nov-16	82.92	19.08	0				85.56	19.04	0	101.82	19.08	0	82.24	19.07	0
20-Dec-16	82.67	19.33	0				85.36	19.24	0	101.61	19.29	0	82.01	19.30	0
31-Jan-17	82.45	19.55	0				85.13	19.47	0	101.46	19.44	0	82.04	19.27	0
22-Feb-17	82.37	19.63	0				85.01	19.59	0	101.31	19.59	0	81.72	19.59	0
24-Mar-17	82.49	19.51	0				85.19	19.41	0	101.45	19.45	0	81.84	19.47	0
20-Apr-17	82.59	19.41	0				85.25	19.35	0	101.5	19.40	0	81.94	19.37	0
26-May-17	82.45	19.55	0				85.13	19.47	0	101.39	19.51	0	81.80	19.51	0
22-Jun-17	82.94	19.06	0				85.59	19.01	0	101.89	19.01	0	82.30	19.01	0
21-Jul-17	83.43	18.57	0				86.5	18.10	0	Transducer Installed	NT	NT	82.81	18.50	0
20-Mar-18	83.56	18.44	0				86.24	18.36	0	102.55	18.35	0	82.89	18.42	0
25-Apr-18	83.47	18.53	0				86.14	18.46	0	102.38	18.52	0	82.86	18.45	0
22-May-18	83.61	18.39	0				86.29	18.31	0	102.56	18.34	0	82.97	18.34	0
20-Jun-18	83.63	18.37	0				86.34	18.26	0	102.57	18.33	0	82.99	18.32	0
25-Jul-18	83.55	18.45	0				86.33	18.27	0	102.58	18.32	0	82.90	18.41	0
21-Aug-18	Transducer Installed	NT	NT				86.32	18.28	0	102.58	18.32	0	Transducer Installed	NT	NT
30-Oct-18	82.64	19.36	0				85.34	19.26	0	101.58	19.32	0	81.99	19.32	0
24-Jan-19	82.30	19.70	0				84.96	19.64	0	101.22	19.68	0	81.66	19.65	0

Red Hill Oil/Water Interface Measurements January 2014 to Present

	RHMW01			RHMW01R			RHMW02			RHMW03			RHMW05		
	Elevation = 101.9955 ft[1]			Elevation = 101.7570 ft			Elevation = 104.5970 ft[1]			Elevation = 120.8980 ft[1]			Elevation = 101.3102 ft[1]		
Date	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL
26-Apr-19	82.45	19.55	0				85.18	19.42	0	101.41	19.49	0	81.88	19.43	0
29-Jul-19	82.67	19.33	0				85.34	19.26	0	101.57	19.33	0	82.06	19.25	0
29-Oct-19	83.15	18.85	0				85.84	18.76	0	102.19	18.71	0	82.09	19.22	0
31-Jan-20	Obstructed	NT	0				85.88	18.72	0	102.17	18.73	0	82.52	18.79	0
23-Apr-20	82.93	19.07	0				85.68	18.92	0	101.82	19.08	0	82.27	19.04	0
24-Jul-20	83.28	18.72	0				85.94	18.66	0	102.13	18.77	0	82.63	18.68	0
15-Oct-20	83.69	18.31	0				86.39	18.21	0	102.56	18.34	0	83.12	18.19	0
27-Jan-21	83.53	18.47	0				86.23	18.37	0	102.46	18.44	0	82.87	18.44	0
22-Apr-21	83.85	18.15	0				86.53	18.07	0	102.72	18.18	0	83.26	18.05	0
20-May-21	84.00	18.00	0				Obstructed	NT	NT	Obstructed	NT	NT	83.42	17.89	0
16-Jun-21	84.10	17.90	0				86.79	17.81	0	102.99	17.91	0	83.53	17.78	0
16-Jul-21	84.14	17.86	0				86.89	17.71	0	103.11	17.79	0	83.62	17.69	0
20-Aug-21				84.06	17.70	0	85.96	18.64	0	103.17	17.73	0	83.67	17.64	0
17-Sep-21				84.14	17.62	0	87.02	17.58	0	103.22	17.68	0	83.79	17.52	0
15-Oct-21				84.17	17.59	0	87.06	17.54	0	103.26	17.64	0	83.80	17.51	0
19-Nov-21				84.26	17.50	0	87.12	17.48	0	103.32	17.58	0	83.89	17.42	0
17-Dec-21				83.31	18.45	0	86.22	18.38	0	102.45	18.45	0	82.94	18.37	0
14-Jan-22				82.90	18.86	0	85.78	18.82	0	102.01	18.89	0	82.49	18.82	0
18-Feb-22				83.23	18.53	0	86.11	18.49	0	102.32	18.58	0	82.85	18.46	0
18-Mar-22				83.30	18.46	0	86.21	18.39	0	102.43	18.47	0	82.90	18.41	0
22-Apr-22[3]	83.40	18.60	0				86.16	18.44	0	104.26	16.64	0	82.85	18.46	0
19-May-22				83.20	18.56	0	86.10	18.50	0	102.35	18.55	0	82.80	18.51	0
17-Jun-22				83.27	18.49	0	86.18	18.42	0	102.39	18.51	0	82.90	18.41	0
15-Jul-22				83.44	18.32	0	86.35	18.25	0	102.57	18.33	0	83.07	18.24	0
19-Aug-22				83.64	18.12	0	86.53	18.07	0	102.75	18.15	0	83.24	18.07	0
16-Sep-22				83.82	17.94	0	87.45	17.15	0	102.90	18.00	0	83.44	17.87	0
20-Oct-22				83.85	17.91	0	86.72	17.88	0	102.95	17.95	0	83.85	17.46	0

Notes:
1 - Elevations updated based on Well Elevation Survey Report, Red Hill Bulk Fuel Storage Facility (DON 2018)
2 - Dedicated groundwater pump obstructing path of interface meter probe; Depth measured based on elevation of water when pump removed from well (RHMW05)
3 - Measurement taken at RHMW01 versus RHMW01R in error
January 2014 to August 2015, Measurements recorded by Environmental Science International from unless otherwise noted
From September 2015, Measurements recorded by Element Environmental, LLC
* - Measurements recorded by NAVFAC HI.
All units in feet (ft).
DTW (TOC) - depth to water from top of well casing
LNAPL - light non-aqueous phase liquid
or NT - measurement not taken
SWL - static water level

Appendix B.2.2 – Summary of NOI Free Product Gauging and Monitoring Well Headspace Measurements for the May 2021 Release from May 12 through November 24, 2021

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Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2022

	RHMW01									RHMW01R								
DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[b] (ft btoc)	(Yes/No)	(ft)		(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[b] (ft btoc)	(Yes/No)	(ft)
2021-05-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	15:53	2.2	0.1	83.64	N-1	-0.01	83.63	No	NA
2021-05-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	11:50	1.3	0.3	83.85[c]	01-5920	0	83.85c	No	NA
2021-05-15	11:11	5.158	3.902	83.97	NA	NA	83.97	No	NA	11:03	5.158	0.378	83.76	NA	NA	83.76	No	NA
2021-05-16	11:05	4.463	3.508	83.87	NA	NA	83.87	No	NA	11:10	4.463	0	83.63	NA	NA	83.63	No	NA
2021-05-17	13:10	5.415	5.100	83.96	NA	NA	83.96	No	NA	13:04	5.170	0	83.73	NA	NA	83.73	No	NA
2021-05-18	13:07	2.53	2.15	83.95	NA	NA	83.95	No	NA	13:04	2.53	0	83.74	NA	NA	83.74	No	NA
2021-05-19	08:56	2.482	2.165	83.99	NA	NA	83.99	No	NA	08:59	2.482	0.200	83.78	NA	NA	83.78	No	NA
2021-05-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	14:00	0.3	0.0	83.71	N-1	-0.01	83.70	No	NA
2021-05-20	09:39	1.476	1.290	84.00	NA	NA	84.00	No	NA	09:42	1.476	0.204	NM	NM	NM	NM	NA	NA
2021-05-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	11:30	1.7	0.2	83.81	N-1	-0.01	83.80	No	NA
2021-05-21	07:24	1.562	1.378	84.03	NA	NA	84.03	No	NA	07:22	1.562	NM	NM	NA	NA	NM	NA	NA
2021-05-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	15:00	0.2	0.4	83.81	311836	NA	83.81[c]	No	NA
2021-05-22	07:45	3.440	3.202	84.05	NA	NA	84.05	No	NA	07:50	3.440	0.227	83.84	NA	NA	83.84	No	NA
2021-05-23	06:26	1.322	1.188	83.96	NA	NA	83.96	No	NA	06:30	1.322	0.295	83.75	NA	NA	83.75	No	NA
2021-05-24	08:00	1.333	1.171	83.89	NA	NA	83.89	No	NA	08:04	1.333	0	83.66	NA	NA	83.66	No	NA
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	11:00	0.1	0.0	83.70	N-1	-0.01	83.69	No	NA
2021-05-25	08:42	1.023	0.829	83.96	NA	NA	83.96	No	NA	08:44	1.023	0.096	83.74	NA	NA	83.74	No	NA
2021-05-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021-05-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-26	07:24	1.898	1.697	83.95	NA	NA	83.95	No	NA	08:32	1.0	0.1	83.73	N-1	-0.01	83.72	No	NA
2021-05-27	10:08	3.978	2.650	84.03	NA	NA	84.03	No	NA	10:13	3.978	0	83.79	NA	NA	83.79	No	NA
2021-05-27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021-05-28	09:12	3.146	2.117	84.03	NA	NA	84.03	No	NA	08:30	0.6	0.0	83.77	N-1	-0.01	83.76	No	NA
2021-05-29	07:47	3.188	2.736	84.01	NA	NA	84.01	No	NA	07:47	3.188	0.590	83.78	NA	NA	83.78	No	NA
2021-05-30	06:46	1.143	1.029	84.02	NA	NA	84.02	No	NA	06:47	1.143	0.064	83.81	NA	NA	83.81	No	NA
2021-05-31	11:03	1.006	0.668	84.02	NA	NA	84.02	No	NA	08:05	0.0	0.0	83.77	N-1	-0.01	83.76	No	NA
2021-06-01	06:41	0.850	0.605	84.02	NA	NA	84.02	No	NA	06:39	0.850	0.200	83.81	NA	NA	83.81	No	NA
2021-06-02	06:08	1.008	0.580	84	NA	NA	84.00	No	NA	08:33	0.2	0.1	83.79	N-1	-0.01	83.78	No	NA
2021-06-03	08:39	2.507	1.855	84.04	NA	NA	84.04	No	NA	08:37	2.507	0.925	83.83	NA	NA	83.83	No	NA
2021-06-04	08:54	1.202	0.831	83.98	NA	NA	83.98	No	NA	09:30	0.1	0.2	83.76	N-1	-0.01	83.75	No	NA
2021-06-05	13:09	0.633	0.277	83.89	NA	NA	83.89	No	NA	13:10	0.633	0	83.67	NA	NA	83.67	No	NA
2021-06-06	07:18	0.686	0.574	83.97	NA	NA	83.97	No	NA	07:23	0.686	0.193	83.77	NA	NA	83.77	No	NA
2021-06-07	08:05	0.677	0.497	84.00	NA	NA	84.00	No	NA	08:04	0.0	0.0	83.72	N-1	-0.01	83.71	No	NA
2021-06-08	07:42	0.814	0.709	83.96	NA	NA	83.96	No	NA	07:50	0.814	0.285	83.78	NA	NA	83.78	No	NA
2021-06-09	08:14	0.889	0.737	84.03	NA	NA	84.03	No	NA	09:45	0.1	0.2	83.81	N-1	-0.01	83.80	No	NA
2021-06-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	08:00	0.0	0.2	83.82	N-1	-0.01	83.81	No	NA
2021-06-17	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:45	0.0	0.0	83.88	N-1	-0.01	83.87	No	NA
2021-06-24	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:00	0.2	0.1	83.83	N-1	-0.01	83.82	No	NA
2021-06-28	09:26	1.694	1.483	84.08	NA	NA	84.08	No	NA	09:23	1.699	0.475	83.87	NA	NA	83.87	No	NA
2021-06-30	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	08:43	0.3	0.2	83.85	N-1	-0.01	83.84	No	NA
2021-07-06	14:24	0.773	0.197	83.97	NA	NA	83.97	No	NA	14:18	0.773	0	83.75	NA	NA	83.75	No	NA
2021-07-08	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:20	0.1	0.2	83.91	N-1	-0.01	83.90	No	NA
7/12/2021 (see note)	08:56	19.010	19.680	84.15	NA	NA	84.15	No	NA	09:01	19.110	0.569	83.92	NA	NA	83.92	No	NA

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2021 (cont'd)

2021-07-15	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:05	0.0	0.1	83.96	N-1	-0.01	83.95	No	NA
2021-07-19	13:22	0.960	0.385	84.15	NA	NA	84.15	No	NA	13:25	0.960	0	83.93	NA	NA	83.93	No	NA
2021-07-22	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:08	0.1	0.2	84.04	N-1	-0.01	84.03	No	NA
2021-07-26	07:45	0.338	0	83.91	NA	NA	83.91	No	NA	07:41	0.338	0.215	84.12	NA	NA	84.12	No	NA
2021-07-29	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	11:05	0.0	0	83.98	N-1	-0.01	83.97	No	NA
2021-08-02	NC	NC	NC	NC3	NC3	NC3	NC3	NC3	NC3	09:36	1.451	0.737	83.95	NA	NA	83.95	No	NA
2021-08-05	07:10	0.11 (see note)	0.038 (see note)	NC3	NC3	NC3	NC3	NC3	NC3	09:55	0.0	0.0	84.03	N-1	-0.01	84.02	No	NA
2021-08-09	07:35	0.315	0.318	NC3	NC3	NC3	NC3	NC3	NC3	07:27	0.315	0.115	83.95	NA	NA	83.95	No	NA
2021-08-12	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:33	0.0	0.0	84.07	N-1	-0.01	84.06	No	NA
2021-08-16	11:39	0.418	0.386	NC3	NC3	NC3	NC3	NC3	NC3	11:42	0.419	0.423	84.11	NA	NA	84.11	No	NA
2021-08-19	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:50	0.1	0.2	84.02	N-1	-0.01	84.01	No	NA
2021-08-23	15:15	0.795	0.746	NC3	NC3	NC3	NC3	NC3	NC3	15:20	0.800	0	83.90	NA	NA	83.90	No	NA
2021-08-26	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:50	0.0	0.0	84.01	N-1	-0.01	84.00	No	NA
2021-08-30	10:51	1.032	0.93	NC3	NC3	NC3	NC3	NC3	NC3	10:54	1.027	0.500	83.99	NA	NA	83.99	No	NA
2021-09-01	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:30	0.0	1.4	84.09	N-1	-0.01	84.08	No	NA
2021-09-07	12:10	0.135	0.107	NC3	NC3	NC3	NC3	NC3	NC3	12:01	0.131	0 (see note)	84.00	NA	NA	84.00	No	NA
2021-09-08	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:35	0.0	0.1	84.09	N-1	-0.01	84.08	No	NA
2021-09-13	10:58	0.195	0.181	NC3	NC3	NC3	NC3	NC3	NC3	10:55	0.187	0	83.91	NA	NA	83.91	No	NA
2021-09-15	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:05	0.1	0.1	84.03	N-1	-0.01	84.02	No	NA
2021-09-20	NC	NC	NC	NC3	NC3	NC3	NC3	NC3	NC3	08:57	0.412	0	83.99	NA	NA	83.99	No	NA
2021-09-22	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:52	0.1	0.1	83.98	N-1	-0.01	83.97	No	NA
2021-09-23	09:38	0.267	0.207	NC3	NC3	NC3	NC3	NC3	NC3	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-27	08:02	0.120	0.125	NC3	NC3	NC3	NC3	NC3	NC3	08:01	0.120	0 (see note)	84.07	NA	NA	84.07	No	NA
2021-09-29	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:52	0.0	0.0	84.11	N-1	-0.01	84.10	No	NA
2021-10-04	15:24	0.956	0.952	NC3	NC3	NC3	NC3	NC3	NC3	15:20	0.997	0	83.93	NA	NA	83.93	No	NA
2021-10-06	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:00	0.0	0.1	84.06	N-1	-0.01	84.05	No	NA
2021-10-12	12:11	0.139	0.129	NC3	NC3	NC3	NC3	NC3	NC3	12:19	0.140	0.093	84.11	NA	NA	84.11	No	NA
2021-10-13	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:30	0.1	0.2	84.09	N-1	-0.01	84.08	No	NA
2021-10-20	10:28	0.0	0.0	84.37	N-1	-0.01	84.36	No	NA	10:59	0.0	0.1	84.14	N-1	-0.01	84.13	No	NA
2021-10-27	09:35	0.1	0.1	84.42	N-1	-0.01	84.41	No	NA	09:33	0.1	0.1	84.19	N-1	-0.01	84.18	No	NA
2021-11-03	10:20	0.0	0.0	NC3	NC3	NC3	NC3	NC3	NC3	10:30	0.1	0.2	84.19	N-1	-0.01	84.18	No	NA
2021-11-10	11:40	0.0	0.1	NC3	NC3	NC3	NC3	NC3	NC3	11:43	0.0	0.0	84.16	N-1	-0.01	84.15	No	NA
2021-11-17	11:35	0.0	0.0	NC3	NC3	NC3	NC3	NC3	NC3	11:38	0.0	0.1	84.16	N-1	-0.01	84.15	No	NA
2021-11-24	10:05	0.0	0.0	NC3	NC3	NC3	NC3	NC3	NC3	10:03	0.0	0.0	84.29	N-1	-0.01	84.28	No	NA
2021-12-01	10:40	0.2	0.2	NC3	NC3	NC3	NC3	NC3	NC3	*	*	*	*	*	*	*	*	*
2021-12-08	10:53	0.1	0.1	NC3	NC3	NC3	NC3	NC3	NC3	*	*	*	*	*	*	*	*	*

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2021 (cont'd)

	RHMW02									RHMW03								
DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[b] (ft btoc)	(Yes/No)	(ft)		(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[b] (ft btoc)	(Yes/No)	(ft)
2021-05-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-13	10:00	1.1	0.1	86.69	N-1	-0.07	86.62	No	NA	10:30	0.8	0.1	103.23	N-2	-0.05	103.18	No	NA
2021-05-15	11:23	4.833	0.594	86.66	NA	-0.06	86.60	No	NA	11:28	3.985	0.413	102.88	NA	-0.04	102.84	No	NA
2021-05-16	11:23	4.054	0	86.57	NA	-0.06	86.51	No	NA	11:43	3.548	0.036	102.79	NA	-0.04	102.75	No	NA
2021-05-17	13:28	7.511	0.174	86.62	NA	-0.06	86.56	No	NA	13:36	3.314	0.280	102.83	NA	-0.04	102.79	No	NA
2021-05-18	13:15	5.056	0	86.66	NA	-0.06	86.60	No	NA	13:24	0.965	0	102.87	NA	-0.04	102.83	No	NA
2021-05-19	09:07	1.926	0.270	86.68	NA	-0.06	86.62	No	NA	09:17	1.149	0.105	102.94	NA	-0.04	102.90	No	NA
2021-05-19	16:00	0.1	0.0	86.67	N-1	-0.07	86.60	No	NA	16:20	0.1	0.0	102.91	N-1	-0.05	102.86	No	NA
2021-05-20	09:47	1.040	0.180	NM	NM	NM	NM	NA	NA	11:28	0.811	0.068	NM	NM	NM	NM	NA	NA
2021-05-20	10:15	0.7	0.0	86.68	N-1	-0.07	86.61	No	NA	12:10	1.1	0.0	102.89	N-1	-0.05	102.84	No	NA
2021-05-21	10:56	1.339	0.202	86.74	NA	-0.06	86.68	No	NA	10:48	0.689	0.181	102.95	NA	-0.04	102.91	No	NA
2021-05-21	15:40	0.1	0.1	86.72	311836	-0.06	86.66[c]	No	NA	16:22	0.1	0	102.94	311836	-0.04	102.9[c]	No	NA
2021-05-22	09:45	3.386	0.590	86.73	NA	-0.06	86.67	No	NA	12:46	4.060	0.507	102.97	NA	-0.04	102.93	No	NA
2021-05-23	07:37	0.948	0.063	86.66	NA	-0.06	86.60	No	NA	09:43	0.595	0.113	102.86	NA	-0.04	102.82	No	NA
2021-05-24	09:05	1.076	0.140	86.59	NA	-0.06	86.53	No	NA	11:29	2.228	0.370	102.87	NA	-0.04	102.83	No	NA
2021-05-24	12:45	0.3	0.1	86.64	N-1	-0.07	86.57	No	NA	NC1	NC1	NC1	NC1	NC1	N1	NC1	NC1	NC1
2021-05-25	10:01	0.945	16.19 (see note)	86.65	NA	-0.06	86.59	No	NA	11:53	2.09	0.552	102.88	NA	-0.04	102.84	No	NA
2021-05-25	12:51	1.291	0.295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021-05-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	14:40	0.0	0.0	102.85			102.85	No	NA
2021-05-26	10:38	3.2	0.3	86.66	N-1	-0.07	86.59	No	NA	14:00	0.1	0.0	102.86	N-1	-0.05	102.81	No	NA
2021-05-27	11:25	5.484	14.43 (see note)	86.71	NA	-0.06	86.65	No	NA	13:24	0.400	0	102.93	NA	-0.04	102.89	No	NA
2021-05-27	11:25	-	0.156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021-05-28	11:00	2.5	0.3	86.67	N-1	-0.07	86.60	No	NA	14:05	0.4	0.0	102.91	N-1	-0.05	102.86	No	NA
2021-05-29	09:24	2.890	0.640	86.69	NA	-0.06	86.63	No	NA	11:42	2.451	0.746	102.93	NA	-0.04	102.89	No	NA
2021-05-30	07:45	1.930	0.335	86.72	NA	-0.06	86.66	No	NA	09:54	1.372	0.881	102.98	NA	-0.04	102.94	No	NA
2021-05-31	09:39	0.0	0.0	86.68	N-1	-0.07	86.61	No	NA	11:19	0.1	0.0	102.91	N-1	-0.05	102.86	No	NA
2021-06-01	07:38	0.776	0.800	86.77	NA	-0.06	86.71	No	NA	09:43	0.428	0.212	102.97	NA	-0.04	102.93	No	NA
2021-06-02	10:17	0.3	0.1	86.74	N-1	-0.07	86.67	No	NA	11:54	0.2	0.0	102.95	N-1	-0.05	102.90	No	NA
2021-06-03	09:39	2.434	0.897	86.74	NA	-0.06	86.68	No	NA	11:36	2.784	1.295	102.83	NA	-0.04	102.79	No	NA
2021-06-04	10:50	0.7	0.2	86.66	N-1	-0.07	86.59	No	NA	11:57	0.6	0.2	102.98	N-1	-0.05	102.93	No	NA
2021-06-05	14:15	0.292	0	86.60	NA	-0.06	86.54	No	NA	16:01	0	0	102.95	NA	-0.04	102.91	No	NA
2021-06-06	08:37	0.582	0.237 (see note)	86.66	NA	-0.06	86.60	No	NA	10:50	0.466	0.233	102.84	NA	-0.04	102.80	No	NA
2021-06-07	09:18	0.2	0.4	86.63	N-1	-0.07	86.56	No	NA	10:20	0.2	0.0	102.90	N-1	-0.05	102.85	No	NA
2021-06-08	08:55	1.321	0.464	86.69	NA	-0.06	86.63	No	NA	11:17	1.818	7.300	102.85	NA	-0.04	102.81	No	NA
2021-06-09	10:44	0.1	0.0	86.70	N-1	-0.07	86.63	No	NA	11:31	0.0	0.0	103.02	N-1	-0.05	102.97	No	NA
2021-06-11	09:00	0.2	0.0	86.74	N-1	-0.07	86.67	No	NA	09:55	0.0	0.0	102.97	N-1	-0.05	102.92	No	NA
2021-06-17	10:45	0.0	0.2	86.79	N-1	-0.07	86.72	No	NA	12:06	0.0	0.0	103.00	N-1	-0.05	102.95	No	NA
2021-06-24	11:00	0.0	0.0	86.76	N-1	-0.07	86.69	No	NA	12:00	0.3	5.1	102.98	N-1	-0.05	102.93	No	NA
2021-06-28	09:48	1.485	3.354	86.76	NA	-0.06	86.70	No	NA	10:58	1.280	11.000	102.98	NA	-0.04	102.94	No	NA
2021-06-30	10:18	0.0	0.4	86.67	N-1	-0.07	86.60	No	NA	12:58	0.0	0.0	103.26	N-1	-0.05	103.21	No	NA
2021-07-06	14:30	0.594	0	86.67	NA	-0.06	86.61	No	NA	15:22	0.055	0	102.88	NA	-0.04	102.84	No	NA
2021-07-08	11:51	0	0.4	86.81	N-1	-0.07	86.74	No	NA	12:53	0.1	0.0	103.07	N-1	-0.05	103.02	No	NA
7/12/2021 (see note)	09:16	16.280	0.351	86.83	NA	-0.06	86.77	No	NA	10:08	1.032	0.131	103.10	NA	-0.04	103.06	No	NA

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2021 (cont'd)

2021-07-15	11:00	0.0	0.9	86.87	N-1	-0.07	86.80	No	NA	12:15	0.0	0.0	103.19	N-1	-0.05	103.14	No	NA
2021-07-19	13:39	0.450	0	86.85	NA	-0.06	86.79	No	NA	14:36	0.316	0	102.46	NA	-0.04	102.42	No	NA
2021-07-22	11:03	0.1	0.5	86.92	N-1	-0.07	86.85	No	NA	11:58	0.1	1.4	103.31	N-1	-0.05	103.26	No	NA
2021-07-26	07:53	0.205	0.483 (see note)	86.83	NA	-0.06	86.77	No	NA	08:07	0.058	0	102.93	NA	-0.04	102.89	No	NA
2021-07-29	12:18	0.0	0.5	86.90	N-1	-0.07	86.83	No	NA	13:22	0.2	1.4	103.11	N-1	-0.05	103.06	No	NA
2021-08-02	10:49	1.282	0.652	86.89	NA	-0.06	86.83	No	NA	10:36	1.086	0.331	103.00	NA	-0.04	102.96	No	NA
2021-08-05	11:00	0.0	0.3	86.93	N-1	-0.07	86.86	No	NA	12:03	0.0	0.6	103.16	N-1	-0.05	103.11	No	NA
2021-08-09	07:40	0.256	1.276 (see note)	86.48	NA	-0.06	86.42	No	NA	08:06	0.198	0.054	103.90	NA	-0.04	103.86	No	NA
2021-08-12	10:35	0.0	0.8	86.96	N-1	-0.07	86.89	No	NA	11:42	0.0	0.1	103.17	N-1	-0.05	103.12	No	NA
2021-08-16	12:22	0.321	0.214 (see note)	86.98	NA	-0.06	86.92	No	NA	12:10	0.338	0	103.22	NA	-0.04	103.18	No	NA
2021-08-19	11:20	0.2	0.3	86.95	N-1	-0.07	86.88	No	NA	12:20	0.1	0.1	103.18	N-1	-0.05	103.13	No	NA
2021-08-23	15:40	0.773	22.640	86.83	NA	-0.06	86.77	No	NA	16:12	0.834	0.113	103.04	NA	-0.04	103.00	No	NA
2021-08-26	11:17	0.0	0.2	86.88	N-1	-0.07	86.81	No	NA	12:25	0.0	2.0	103.11	N-1	-0.05	103.06	No	NA
2021-08-30	11:04	1.062	0.362 (see note)	86.91	NA	-0.06	86.85	No	NA	11:12	1.156	0.215	103.11	NA	-0.04	103.07	No	NA
2021-09-01	10:42	0.0	0.2	86.97	N-1	-0.07	86.90	No	NA	11:45	0.0	0.2	103.17	N-1	-0.05	103.12	No	NA
2021-09-07	12:22	0.061	0.137 (see note)	86.93	NA	-0.06	86.87	No	NA	12:38	0.02	0.245	103.24	NA	-0.04	103.20	No	NA
2021-09-08	11:25	0.0	0.4	86.97	N-1	-0.07	86.90	No	NA	13:05	0.0	0.0	103.10	N-1	-0.05	103.05	No	NA
2021-09-13	11:16	0.137	1.03 (see note)	86.84	NA	-0.06	86.78	No	NA	11:29	0.108	0.157	103.07	NA	-0.04	103.03	No	NA
2021-09-15	13:00	0.1	1.2	86.89	N-1	-0.07	86.82	No	NA	13:57	0.1	0.1	103.16	N-1	-0.05	103.11	No	NA
2021-09-20	09:08	0.061	1.241	86.95	NA	-0.06	86.89	No	NA	10:02	0.030	0.049	103.3	NA	-0.04	103.26	No	NA
2021-09-22	11:25	0.1	0.4	86.88	N-1	-0.07	86.81	No	NA	12:40	0.0	0.0	103.12	N-1	-0.05	103.07	No	NA
2021-09-23	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-27	08:10	0.068	0.868 (see note)	87.01	NA	-0.06	86.95	No	NA	08:20	0.057	0.157	103.17	NA	-0.04	103.13	No	NA
2021-09-29	11:00	0.0	0.3	86.94	N-1	-0.07	86.87	No	NA	11:40	0.0	0.0	103.14	N-1	-0.05	103.09	No	NA
2021-10-04	15:30	0.459	0	86.89	NA	-0.06	86.83	No	NA	15:52	0.060	0	103.12	NA	-0.04	103.08	No	NA
2021-10-06	11:10	0.1	1.9	86.98	N-1	-0.07	86.91	No	NA	12:45	0.0	0.1	103.18	N-1	-0.05	103.13	No	NA
2021-10-12	12:28	0.078	0	87.03	NA	-0.06	86.97	No	NA	13:30	0.142	0.042	103.19	NA	-0.04	103.15	No	NA
2021-10-13	11:40	0.1	1.2	87.04	N-1	-0.07	86.97	No	NA	12:40	0.2	0.1	103.22	N-1	-0.05	103.17	No	NA
2021-10-20	12:20	0.0	0.0	87.04	N-1	-0.07	86.97	No	NA	13:48	0.0	0.0	103.22	N-1	-0.05	103.17	No	NA
2021-10-27	10:27	0.5	3.1	87.09	N-1	-0.07	87.02	No	NA	11:18	0.1	0.1	103.28	N-1	-0.05	103.23	No	NA
2021-11-03	11:27	0.1	0.0	87.04	N-1	-0.07	86.97	No	NA	12:35	0.0	0.1	103.23	N-1	-0.05	103.18	No	NA
2021-11-10	13:38	0.0	0.0	87.04	N-1	-0.07	86.97	No	NA	15:17	0.0	0.0	103.28	N-1	-0.05	103.23	No	NA
2021-11-17	13:23	0.0	0.0	87.04	N-1	-0.07	86.97	No	NA	15:05	0.0	0.0	103.29	N-1	-0.05	103.24	No	NA
2021-11-24	11:08	0.0	0.0	87.15	N-1	-0.07	87.08	No	NA	12:10	0.0	0.0	103.37	N-1	-0.05	103.32	No	NA
2021-12-01	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*
2021-12-08	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2021 (cont'd)

	RHMW05								
DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[b] (ft btoc)	(Yes/No)	(ft)
2021-05-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-15	10:48	5.094	0.345	83.38	NA	-0.01	83.37	No	NA
2021-05-16	10:49	4.753	0	83.24	NA	-0.01	83.23	No	NA
2021-05-17	13:18	5.601	0.140	83.33	NA	-0.01	83.32	No	NA
2021-05-18	12:56	2.174	0	83.39	NA	-0.01	83.38	No	NA
2021-05-19	08:48	2.556	0.260	83.48	NA	-0.01	83.47	No	NA
2021-05-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-20	09:31	1.622	0.130	83.42	NA	-0.01	83.41	No	NA
2021-05-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-21	07:17	1.456	0.080	83.44	NA	-0.01	83.43	No	NA
2021-05-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-22	07:34	3.525	0.152	83.44	NA	-0.01	83.43	No	NA
2021-05-23	06:20	1.419	0.146	83.36	NA	-0.01	83.35	No	NA
2021-05-24	07:52	1.395	0	83.27	NA	-0.01	83.26	No	NA
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-25	08:35	1.074	0.113	83.36	NA	-0.01	83.35	No	NA
2021-05-25	-	-	-	-	-	-	-	-	-
2021-05-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-26	07:17	1.983	0.055	83.34	NA	-0.01	83.33	No	NA
2021-05-27	10:02	5.871	0	83.43	NA	-0.01	83.42	No	NA
2021-05-27	-	-	-	-	-	-	-	-	-
2021-05-28	09:07	3.167	0	83.42	NA	-0.01	83.41	No	NA
2021-05-29	07:38	2.992	0.056	83.42	NA	-0.01	83.41	No	NA
2021-05-30	06:38	1.205	0	83.42	NA	-0.01	83.41	No	NA
2021-05-31	10:58	0.955	0.0	83.42	NA	-0.01	83.41	No	NA
2021-06-01	06:29	1.003	0	83.44	NA	-0.01	83.43	No	NA
2021-06-02	06:02	1.05	0	83.4	N-1	-0.02	83.38	No	NA
2021-06-03	08:19	2.369	0.092	83.45	NA	-0.01	83.44	No	NA
2021-06-04	08:42	1.155	0.184	83.39	NA	-0.01	83.38	No	NA
2021-06-05	12:53	0.723	0	83.25	NA	-0.01	83.24	No	NA
2021-06-06	07:03	0.836	0	83.36	NA	-0.01	83.35	No	NA
2021-06-07	07:53	0.743	0	83.37	NA	-0.01	83.36	No	NA
2021-06-08	07:31	0.950	0	83.36	NA	-0.01	83.35	No	NA
2021-06-09	08:01	1.042	0	83.41	NA	-0.01	83.40	No	NA
2021-06-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-17	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-06-24	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-06-28	09:02	1.683	0	83.5	NA	-0.01	83.49	No	NA
2021-06-30	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-07-06	14:04	0.689	0	83.33	NA	-0.01	83.32	No	NA
2021-07-08	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
7/12/2021 (see note)	08:48	23.860	0	83.54	NA	-0.01	83.53	No	NA

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2021 (cont'd)

2021-07-15	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-07-19	13:10	1.361	0	83.55	NA	-0.01	83.54	No	NA
2021-07-22	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-07-26	07:29	0.332	0	83.55	NA	-0.01	83.54	No	NA
2021-07-29	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-08-02	09:25	1.311	0.141	83.61	NA	-0.01	83.60	No	NA
2021-08-05	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-08-09	07:14	0.278	0	83.58	NA	-0.01	83.57	No	NA
2021-08-12	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-08-16	11:27	0.407	0	83.77	NA	-0.01	83.76	No	NA
2021-08-19	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-08-23	14:50	0.799	0	83.51	NA	-0.01	83.50	No	NA
2021-08-26	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-08-30	10:44	0.976	0	83.56	NA	-0.01	83.55	No	NA
2021-09-01	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-09-07	11:50	0.106	0	83.64	NA	-0.01	83.63	No	NA
2021-09-08	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-09-13	10:40	0.152	0	83.52	NA	-0.01	83.51	No	NA
2021-09-15	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-09-20	08:50	0.135	0	83.63	NA	-0.01	83.62	No	NA
2021-09-22	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-09-23	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-27	07:47	0.105	0	83.64	NA	-0.01	83.63	No	NA
2021-09-29	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-10-04	15:10	1.231	0	83.52	NA	-0.01	83.51	No	NA
2021-10-06	08:50	0.0	0.0	83.68	N-1	-0.02	83.66	No	NA
2021-10-12	12:06	0.125	0	83.74	NA	-0.01	83.73	No	NA
2021-10-13	09:05	0.1	0.1	83.71	N-1	-0.02	83.69	No	NA
2021-10-20	08:57	0.0	0.0	83.78	N-1	-0.02	83.76	No	NA
2021-10-27	08:30	0.1	0.0	83.84	N-1	-0.02	83.82	No	NA
2021-11-03	09:23	0.0	0.0	83.80	N-1	-0.02	83.78	No	NA
2021-11-10	09:50	0.0	0.0	83.79	N-1	-0.02	83.77	No	NA
2021-11-17	10:18	0.1	0.0	83.77	N-1	-0.02	83.75	No	NA
2021-11-24	08:55	0.0	0.0	83.93	N-1	-0.02	83.91	No	NA
2021-12-01	*	*	*	*	*	*	*	*	*
2021-12-08	*	*	*	*	*	*	*	*	*

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

NA = Not applicable

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

ppmv = parts-per-million, volume

NC - Not collected

NC1 - Not collected due to headspace and fuel product gauging occurring only where groundwater sampling was being conducted.

NC2 - Not collected - monitoring well not being sampled for groundwater in the DOH Transition Plan.

NC3 - Fuel product gauging not conducted at RHMW01 per email correspondence from DOH on 7/27/2021

* - See next tab for continuation of results

[a] Ants around RHMW04. Team sprayed isopropyl alcohol in order to get ants off lid. Reading was high due to residual alcohol.

[b] Depth to water measurements are corrected for water level meter calibrations and horizontal well displacement, see correction factor tables for corrections factors and corrected values per water level meter and well. Solinst N-1 and Solinst N-2 water level corrections are forthcoming and will be included once available. Table includes depths taken by subcontractor Element. Depths recorded by Element do not hape water level meter corrections that can be applied. Well displacement corrections are applied to depths taken by Element. meters calibrated by USGS, calibrations published in the "Results from calibration of groundwater-level measuring tapes" letter dated January 24, 2020. RHMW02, RHMW03, and RHMW05 have well displacement corrections. RHMW01R well displacement

[c] measured with oil/water probe

Notes:

5/25/2021: Initial headspace reading at RHMW02 was unusually high. No signs of fuel product (sheen or odor) were observed during fuel product gauging. Returned to verify headspace reading and it was significantly lower, as shown in the second set of results.

5/27/2021: Initial headspace reading at RHMW02 was ~14.43 ppmv, but dropped to 0.156 ppmv. No fuel product measured.

6/6/2021: Immediate headspace reading was 3.316 ppmv, but dropped quickly to value recorded.

7/12/2021 Strong background chemical odor related to contractor work at Tank 13.

7/26/2021: Initial headspace reading was ~11.33 ppmv, but dropped quickly to 0.483 ppmv. No fuel product measured.

8/5/2021: Headspace and breathing zone PID readings taken at RHMW01 due to inadvertently being excluded on 8/2/2021.

8/9/2021: Initial headspace reading was ~22.35 ppm, but dropped quickly to value recorded.

8/16/2021: Initial headspace reading was 7.621 ppm, but dropped quickly to value recorded.

8/30/2021: Initial headspace reading was 5.032 ppm, but dropped to value recorded.

9/7/2021: Initial headspace reading at RHMW01R was 0.910 ppm, but dropped to value recorded. Initial headspace reading at RHMW02 was 4.521 ppm, but dropped to value recorded.

9/13/2021: Initial headspace reading at RHMW01R was ~14.1 ppm, but dropped to value recorded.

9/27/2021: Initial headspace reading at RHMW01R was 0.600 ppm, but dropped to value recorded. Initial headspace reading at RHMW02 was 5.806 ppm, with strong sulfur odor, but dropped to value recorded.

Additional Sampling 09/29/2021-10/04/2021

Well Name	Date	TIME	AMBIENT (ppmv)	HEADSPACE (ppmv)	Raw DTW (ft btoc)	WLM SN	Correction Factor (ft)	Corrected DTW[b] (ft btoc)	PRODUCT? (Yes/No)	THICKNESS (ft)
RHMW05	2021-09-29	08:50	0.0	0.0	83.66	N-1	-0.02	83.64	No	NA
RHMW19	9-30-2021	09:05	0.0	0.0	427.30	N-2	-0.06	427.24	No	NA
RHMW10	9-30-2021	11:17	0.0	0.0	478.33	N-2	-0.15	478.18	No	NA
RHMW09	9-30-2021	12:50	0.0	0.0	378.32	N-2	-0.29	378.03	No	NA
RHMW08	9-30-2021	14:35	0.0	0.0	293.14	N-2	-0.07	293.07	No	NA
RHMW04	2021-10-01	08:25	0.0	9.0[(1)]	294.59	N-2	-0.06	294.53	No	NA
RHMW06	2021-10-01	10:00	0.0	0.0	241.76	N-2	-0.04	241.72	No	NA
RHMW16	2021-10-01	11:25	0.0	0.0	202.46	N-2	-0.03	202.43	No	NA
OWDFMW01	2021-10-01	12:38	0.0	0.0	120.70	N-2	-0.05	120.65	No	NA
RHMW12A	2021-10-04	09:04	0.0	0.1	221.41	N-2	-0.03	221.38	No	NA

Appendix B.2.3 – Summary of NOI Free Product Gauging and Monitoring Well Headspace Measurements from November 28, 2021 through November 4, 2022

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Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022

	RHMW01R									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	10:35	0.2	0.0	83.83	N-1	-0.01	83.82	No	NA
2021-12-05	12/8/2021	10:52	0.1	0.3	83.45	N-1	-0.01	83.44	No	NA
2021-12-13	12/15/2021	13:00	0.0	0.1	83.28	N-1	-0.01	83.27	No	NA
2021-12-20	12/20/2021	11:03	0.0	0.0	83.20	N-1	-0.01	83.19	No	NA
2021-12-27	12/27/2021	11:23	0.2	9.8	83.18	N-1	-0.01	83.17	No	NA
2022-01-03	2022-01-03	11:35	0.0	287.7	82.99	N-1	-0.01	82.98	No	NA
2022-01-10	2022-01-10	11:35	0.0	0.0	82.86	N-1	-0.01	82.85	No	NA
2022-01-16	2022-01-17	11:13	0.0	0.0	82.77	N-1	-0.01	82.76	No	NA
2022-01-24	2022-01-24	12:16	0.2	0.1	82.83	N-1	-0.01	82.82	No	NA
2022-01-31	2022-02-03	09:08	0.1	0.0	83.23	N-1	-0.01	83.22	Yes[c]	0.01[c]
2022-02-07	2022-02-10	08:55	0.0	0.0	83.21	N-2	-0.01	83.20	No	NA
2022-02-14	2022-02-16	11:08	0.4	0.0	83.25	N-2	-0.01	83.24	No	NA
2022-02-21	2022-02-23	08:50	0.0	0.0	83.26	N-1	-0.01	83.25	No	NA
2022-02-28	2022-03-02	11:27	0.0	0.0	83.28[b]	01-5920	0.00	83.28[b]	Yes[c]	0.01[c]
2022-03-07	2022-03-08	08:48	0.0	0.0	83.31	N-3	pending	83.31[e]	No	NA
2022-03-14	2022-03-15	10:05	0.0	0.0	83.36	N-4	pending	83.36[e]	No	NA
2022-03-21	2022-03-22	09:50	0.0	0.0	83.32	N-3	pending	83.32[e]	No	NA
2022-03-28	2022-03-31	11:45	0.0	0.0	83.31	N-4	pending	83.31[e]	No	NA
2022-04-04	2022-04-05	09:47	0.2	0.0	83.26	N-4	pending	83.26[e]	No	NA
2022-04-25	2022-04-26	09:45	0.0	0.0	83.28	N-4	pending	83.28[e]	No	NA
2022-05-02	2022-05-03	09:45	0.1	0.0	83.27	N-4	pending	83.27[e]	No	NA
2022-05-09	2022-05-09	08:50	0.4	0.0	83.27	N-4	pending	83.27[e]	No	NA
2022-05-16	2022-05-17	09:45	0.0	0.0	83.23	N-3	pending	83.23[e]	No	NA
2022-05-23	2022-05-24	09:20	0.0	0.0	83.24	N-4	pending	83.24[e]	No	NA
2022-05-30	2022-05-31	10:33	0.0	0.0	83.24	N-4	pending	83.24[e]	No	NA
2022-06-06	2022-06-07	09:41	0.0	0.0	83.30	N-3	pending	83.30[e]	No	NA
2022-06-13	2022-06-14	09:45	0.1	0.0	83.31	N-3	pending	83.31[e]	No	NA
2022-06-20	2022-06-21	10:05	0.0	0.0	83.31	N-1	-0.01	83.30	No	NA
2022-06-27	2022-06-29	09:18	0.1	0.0	83.43	N-4	pending	83.43[e]	No	NA
2022-07-04	2022-07-06	09:35	0.2	0.0	83.42	N-4	pending	83.42[e]	No	NA
2022-07-11	2022-07-12	09:36	0.2	0.0	83.49	N-4	pending	83.49[e]	No	NA
2022-08-01	2022-08-02	10:20	0.0	0.0	83.57	N-4	pending	83.57[e]	No	NA
2022-08-08	2022-08-09	09:37	0.0	0.0	83.64	N-4	pending	83.64[e]	No	NA
2022-08-15	2022-08-16	09:34	0.1	0.0	83.65	N-4	pending	83.65[e]	No	NA
2022-08-22	2022-08-23	09:55	0.0	0.0	83.72	N-4	pending	83.72[e]	No	NA
2022-08-29	2022-08-30	10:25	0.0	0.0	83.81	N-4	pending	83.81[e]	No	NA
2022-09-06	2022-09-06	11:15	0.1	0.0	83.76	N-3	pending	83.76[e]	No	NA
2022-09-12	2022-09-13	10:20	0.1	0.2	83.82	N-3	pending	83.82[e]	No	NA
2022-09-19	2022-09-20	11:25	0.1	0.0	83.79	01-8854	pending	83.79[j]	No	NA
2022-09-26	2022-09-27	10:55	0.0	0.0	83.78	N-3	pending	83.78[e]	No	NA
2022-10-03	2022-10-04	09:52	0.1	0.1	83.85	N-4	pending	83.85[e]	No	NA
2022-10-17	2022-10-18	10:23	0.0	0.0	83.84	N-3	pending	83.84[e]	No	NA
2022-10-17	2022-10-20	10:09	0.0	0.2	83.85	N-4	pending	83.85[e]	No	NA
2022-10-24	2022-10-25	15:15	0.0	0.0	83.85	N-3	pending	83.85[e]	No	NA
2022-10-24	2022-10-27	11:45	0.0	0.0	83.78	N-3	pending	83.78[e]	No	NA
2022-10-31	2022-11-01	09:45	0.0	0.0	83.81	N-6	pending	83.81[e]	No	NA
2022-10-31	2022-11-03	09:55	0.0	0.0	83.87	N-3	pending	83.87[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW02									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	12:02	0.0	0.0	86.75	N-1	-0.07	86.68	No	NA
2021-12-05	12/8/2021	12:12	0.0	0.2	86.41	N-1	-0.07	86.34	No	NA
2021-12-13	12/15/2021	14:08	0.0	0.0	86.19	N-1	-0.07	86.12	No	NA
2021-12-20	12/20/2021	12:18	0.0	0.0	86.12	N-1	-0.07	86.05	No	NA
2021-12-27	12/27/2021	13:30	0.0	31.8[a]	86.08	N-1	-0.07	86.01	No	NA
2022-01-03	1/3/2022	12:55	0.0	74.1	85.87	N-1	-0.07	85.80	No	NA
2022-01-10	2022-01-10	13:37	0.0	0.0	85.76	N-1	-0.07	85.69	No	NA
2022-01-16	2022-01-17	12:26	0.0	0.0	85.68	N-1	-0.07	85.61	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	13:15	0.2	0.0	86.19[b]	01-5920	-0.06	86.13[b]	No	NA
2022-03-07	2022-03-08	09:56	0.0	0.0	86.22	N-3	-0.06	86.16[e]	No	NA
2022-03-14	2022-03-15	11:35	0.0	0.0	86.26	N-4	-0.06	86.20[e]	No	NA
2022-03-21	2022-03-22	11:15	0.0	0.0	86.23	N-3	-0.06	86.17[e]	No	NA
2022-03-28	2022-03-31	10:40	0.0	0.0	86.23	N-4	-0.06	86.17[e]	No	NA
2022-04-04	2022-04-05	11:20	0.0	0.0	86.16	N-4	-0.06	86.10[e]	No	NA
2022-04-25	2022-04-26	10:50	0.0	0.0	86.18	N-4	-0.06	86.12[e]	No	NA
2022-05-02	2022-05-03	11:05	0.0	0.0	86.18	N-4	-0.06	86.12[e]	No	NA
2022-05-09	2022-05-09	12:05	0.0	0.0	86.15	N-4	-0.06	86.09[e]	No	NA
2022-05-16	2022-05-17	10:55	0.0	0.0	86.14	N-3	-0.06	86.08[e]	No	NA
2022-05-23	2022-05-24	10:25	0.0	0.0	86.14	N-4	-0.06	86.08[e]	No	NA
2022-05-30	2022-05-31	11:48	0.0	0.0	86.13	N-4	-0.06	86.07[e]	No	NA
2022-06-06	2022-06-07	10:48	0.0	0.0	86.15	N-3	-0.06	86.09[e]	No	NA
2022-06-13	2022-06-14	10:55	0.0	0.0	86.22	N-3	-0.06	86.16[e]	No	NA
2022-06-20	2022-06-21	11:20	0.0	0.0	86.18	N-1	-0.07	86.11	No	NA
2022-06-27	2022-06-29	10:12	0.0	0.0	86.34	N-4	-0.06	86.28[e]	No	NA
2022-07-04	2022-07-06	10:30	0.0	0.0	86.36	N-4	-0.06	86.30[e]	No	NA
2022-07-11	2022-07-12	10:51	0.0	0.0	86.40	N-4	-0.06	86.34[e]	No	NA
2022-08-01	2022-08-02	11:25	0.0	0.0	86.50	N-4	-0.06	86.44[e]	No	NA
2022-08-08	2022-08-09	11:02	0.0	0.0	86.54	N-4	-0.06	86.48[e]	No	NA
2022-08-15	2022-08-16	10:46	0.0	0.0	86.54	N-4	-0.06	86.48[e]	No	NA
2022-08-22	2022-08-23	11:00	0.0	0.0	86.63	N-4	-0.06	86.57[e]	No	NA
2022-08-29	2022-08-30	11:40	0.0	0.0	86.70	N-4	-0.06	86.64[e]	No	NA
2022-09-06	2022-09-06	12:40	0.1	0.0	86.65	N-3	-0.06	86.59[e]	No	NA
2022-09-12	2022-09-13	11:15	0.0	0.4	86.66	N-3	-0.06	86.60[e]	No	NA
2022-09-19	2022-09-20	10:08	0.0	0.0	86.72	01-8854	-0.06	86.66[j]	No	NA
2022-09-26	2022-09-27	12:08	0.0	0.0	86.69	N-3	-0.06	86.63[e]	No	NA
2022-10-03	2022-10-04	11:37	0.1	0.1	86.75	N-4	-0.06	86.69[e]	No	NA
2022-10-17	2022-10-18	11:37	0.0	0.0	86.73	N-3	-0.06	86.67[e]	No	NA
2022-10-17	2022-10-20	11:58	0.0	0.1	86.74	N-4	-0.06	86.68[e]	No	NA
2022-10-24	2022-10-25	16:30	0.0	0.0	86.76	N-3	-0.06	86.70[e]	No	NA
2022-10-24	2022-10-27	12:05	0.0	0.0	86.69	N-3	-0.06	86.63[e]	No	NA
2022-10-31	2022-11-01	11:05	0.0	0.4	86.70	N-6	-0.06	86.64[e]	No	NA
2022-10-31	2022-11-03	11:15	0.0	0.0	86.75	N-3	-0.06	86.69[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW03									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	13:12	0.0	0.0	103.02	N-1	-0.05	102.97	No	NA
2021-12-05	12/8/2021	13:17	0.0	8.1	102.66	N-1	-0.05	102.61	No	NA
2021-12-13	12/15/2021	15:32	0.0	0.0	102.43	N-1	-0.05	102.38	No	NA
2021-12-20	12/20/2021	13:52	0.0	16.1	102.35	N-1	-0.05	102.30	No	NA
2021-12-27	12/27/2021	15:36	0.3	422.3[a]	102.31	N-1	-0.05	102.26	No	NA
2022-01-03	2022-01-03	14:20	0.0	322.9	102.10	N-1	-0.05	102.05	No	NA
2022-01-10	2022-01-10	15:11	0.0	0.0	102.01	N-1	-0.05	101.96	No	NA
2022-01-16	2022-01-17	13:34	0.0	0.0	101.92	N-1	-0.05	101.87	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	14:55	0.0	0.0	102.41[b]	01-5920	-0.04	102.37[b]	No	NA
2022-03-07	2022-03-08	11:10	0.0	0.0	102.42	N-3	-0.04	102.38[e]	No	NA
2022-03-14	2022-03-15	12:30	0.0	0.0	102.48	N-4	-0.04	102.44[e]	No	NA
2022-03-21	2022-03-22	12:15	0.0	0.0	102.46	N-3	-0.04	102.42[e]	No	NA
2022-03-28	2022-03-31	08:30	0.0	0.0	102.46	N-4	-0.04	102.42[e]	No	NA
2022-04-04	2022-04-05	12:23	0.0	0.0	102.41	N-4	-0.04	102.37[e]	No	NA
2022-04-25	2022-04-26	12:00	0.0	0.0	102.41	N-4	-0.04	102.37[e]	No	NA
2022-05-02	2022-05-03	12:25	0.0	0.0	102.41	N-4	-0.04	102.37[e]	No	NA
2022-05-09	2022-05-09	13:30	0.0	0.0	102.39	N-4	-0.04	102.35[e]	No	NA
2022-05-16	2022-05-17	11:50	0.0	0.0	102.37	N-3	-0.04	102.33[e]	No	NA
2022-05-23	2022-05-24	11:11	0.0	0.0	102.39	N-4	-0.04	102.35[e]	No	NA
2022-05-30	2022-05-31	12:37	0.0	0.1	102.39	N-4	-0.04	102.35[e]	No	NA
2022-06-06	2022-06-07	11:44	0.0	0.0	102.37	N-3	-0.04	102.33[e]	No	NA
2022-06-13	2022-06-14	12:00	0.0	0.0	102.49	N-3	-0.04	102.45[e]	No	NA
2022-06-20	2022-06-21	12:10	0.0	0.0	102.40	N-1	-0.05	102.35	No	NA
2022-06-27	2022-06-29	11:08	0.0	0.0	102.79	N-4	-0.04	102.75[e]	No	NA
2022-07-04	2022-07-06	11:18	0.0	0.0	102.57	N-4	-0.04	102.53[e]	No	NA
2022-07-11	2022-07-12	11:42	0.0	0.0	102.62	N-4	-0.04	102.58[e]	No	NA
2022-08-01	2022-08-02	12:18	0.0	0.0	102.70	N-4	-0.04	102.66[e]	No	NA
2022-08-08	2022-08-09	12:33	0.0	0.0	102.76	N-4	-0.04	102.72[e]	No	NA
2022-08-15	2022-08-16	11:40	0.0	0.0	102.80	N-4	-0.04	102.76[e]	No	NA
2022-08-22	2022-08-23	12:12	0.0	0.0	102.85	N-4	-0.04	102.81[e]	No	NA
2022-08-29	2022-08-30	13:00	0.0	0.0	102.92	N-4	-0.04	102.88[e]	Yes[i]	0.0
2022-09-06	2022-09-06	13:45	0.1	18.0	102.85	N-3	-0.04	102.81[e]	No	NA
2022-09-12	2022-09-13	12:16	0.0	2.7	102.88	N-3	-0.04	102.84[e]	No	NA
2022-09-19	2022-09-20	08:35	0.0	5.6	102.95	01-8854	-0.04	102.88[j]	No	NA
2022-09-26	2022-09-27	13:50	0.0	0.0	102.90	N-3	-0.04	102.86[e]	No	NA
2022-10-03	2022-10-04	12:41	0.1	1.3	102.97	N-4	-0.04	102.93[e]	No	NA
2022-10-17	2022-10-18	12:37	0.0	0.0	102.92	N-3	-0.04	102.88[e]	No	NA
2022-10-17	2022-10-20	12:57	0.0	0.0	102.96	N-4	-0.04	102.92[e]	No	NA
2022-10-24	2022-10-25	17:32	0.0	0.0	103.00	N-3	-0.04	102.96[e]	No	NA
2022-10-24	2022-10-27	13:12	0.0	0.0	102.91	N-3	-0.04	102.87[e]	No	NA
2022-10-31	2022-11-01	12:45	0.0	0.0	102.93	N-6	-0.04	102.89[e]	No	NA
2022-10-31	2022-11-03	12:32	0.0	0.4	102.95	N-3	-0.04	102.91[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW04									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-01-03	2022-01-04	09:55	0.0	0.0	293.51	N-2	-0.06	293.45	No	NA
2022-01-10	2022-01-14	09:15	0.0	0.0	293.42	N-2	-0.06	293.36	No	NA
2022-01-16	2022-01-16	13:00	1.9	2.0	293.29	N-1	-0.06	293.23	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-01	10:35	0.1	0.0	293.90[b]	16HF	-0.06	293.84[b]	No	NA
2022-03-07	2022-03-07	13:30	0.1	0.0	293.69	N-4	-0.02	293.67[e]	No	NA
2022-03-14	2022-03-14	10:55	0.0	0.0	293.76	N-4	-0.02	293.74[e]	No	NA
2022-03-21	2022-03-23	09:30	0.0	0.0	293.74	N-4	-0.02	293.72[e]	No	NA
2022-03-28	2022-03-30	09:00	0.1	0.1	293.71	N-4	-0.02	293.69[e]	No	NA
2022-04-04	2022-04-06	08:43	0.0	0.0	293.69	N-4	-0.02	293.67[e]	No	NA
2022-04-25	2022-04-25	13:55	0.0	0.0	293.65	N-4	-0.02	293.63[e]	No	NA
2022-05-02	2022-05-04	10:45	0.0	0.0	293.63	N-4	-0.02	293.61[e]	No	NA
2022-05-09	2022-05-11	12:25	0.0	0.0	293.41	N-4	-0.02	293.39[e]	No	NA
2022-05-16	2022-05-16	12:40	0.0	0.0	293.59	N-3	-0.02	293.57[e]	No	NA
2022-05-23	2022-05-23	11:15	0.0	0.0	293.62	N-4	-0.02	293.60[e]	No	NA
2022-05-30	2022-06-03	08:00	0.0	0.0	293.61	N-3	-0.02	293.59[e]	No	NA
2022-06-06	2022-06-08	09:35	0.0	0.0	293.61	N-3	-0.02	293.59[e]	No	NA
2022-06-13	2022-06-15	08:00	0.0	0.0	293.62	N-3	-0.02	293.60[e]	No	NA
2022-06-20	2022-06-22	09:37	0.0	0.0	293.70	N-3	-0.02	293.68[e]	No	NA
2022-06-27	2022-06-30	08:13	0.0	0.0	293.85	N-4	-0.02	293.83[e]	No	NA
2022-07-04	2022-07-08	12:28	0.0	0.0	293.85	N-4	-0.02	293.83[e]	No	NA
2022-07-11	2022-07-14	08:08	0.0	0.0	293.89	N-4	-0.02	293.87[e]	No	NA
2022-08-01	2022-08-03	08:05	0.0	0.0	293.99	N-4	-0.02	293.97[e]	No	NA
2022-08-08	2022-08-10	07:50	0.0	0.0	294.05	N-4	-0.02	294.03[e]	No	NA
2022-08-15	2022-08-17	08:00	0.0	0.0	294.09	N-4	-0.02	294.07[e]	No	NA
2022-08-22	2022-08-24	10:30	0.0	0.0	294.12	N-4	-0.02	294.10[e]	No	NA
2022-08-29	2022-08-31	08:05	0.0	0.0	294.19	N-4	-0.02	294.17[e]	No	NA
2022-09-06	2022-09-09	07:30	0.0	0.0	294.14	N-4	-0.02	294.12[e]	No	NA
2022-09-12	2022-09-14	07:40	0.0	0.0	294.17	N-3	-0.02	294.15[e]	No	NA
2022-09-19	2022-09-23	08:00	0.0	0.0	294.32	01-8854	-0.02	294.30[j]	No	NA
2022-09-26	2022-09-28	11:43	0.0	0.0	294.10	N-5	-0.02	294.08[e]	No	NA
2022-10-03	2022-10-05	08:05	0.0	0.0	294.28	N-4	-0.02	294.26[e]	No	NA
2022-10-17	2022-10-17	08:03	0.1	0.4	294.20	N-5	-0.02	294.18[e]	No	NA
2022-10-17	2022-10-19	08:10	0.0	0.0	294.28	N-3	-0.02	294.26[e]	No	NA
2022-10-24	2022-10-24	12:25	0.0	0.0	294.21	N-6	-0.02	294.19[e]	No	NA
2022-10-24	2022-10-26	08:00	0.0	0.0	294.27	N-6	-0.02	294.25[e]	No	NA
2022-10-31	2022-10-31	08:05	0.0	0.0	294.19	N-5	-0.02	294.17[e]	No	NA
2022-10-31	2022-11-02	07:40	0.0	0.0	294.27	N-6	-0.02	294.25[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW05									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	09:34	0.0	0.0	83.41	N-1	-0.02	83.39	No	NA
2021-12-05	12/8/2021	09:22	0.5	2.2	83.02	N-1	-0.02	83.00	No	NA
2021-12-13	12/15/2021	11:20	0.0	0.0	82.86	N-1	-0.02	82.84	No	NA
2021-12-20	12/20/2021	09:15	0.0	0.0	82.86	N-1	-0.02	82.84	No	NA
2021-12-27	12/27/2021	09:04	0.2	1.7	82.76	N-1	-0.02	82.74	No	NA
2022-01-03	2022-01-03	09:12	0.0	105.7	82.56	N-1	-0.02	82.54	No	NA
2022-01-10	2022-01-10	08:50	0.0	0.0	82.42	N-1	-0.02	82.40	No	NA
2022-01-16	2022-01-17	09:40	0.0	0.0	82.36	N-1	-0.02	82.34	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	09:30	0.0	0.0	82.95[b]	01-5920	-0.01	82.94[b]	No	NA
2022-03-07	2022-03-08	07:55	0.0	0.0	82.90	N-3	-0.01	82.89[e]	No	NA
2022-03-14	2022-03-15	08:55	0.0	0.0	82.97	N-4	-0.01	82.96[e]	No	NA
2022-03-21	2022-03-22	08:50	0.2	0.0	82.99	N-3	-0.01	82.98[e]	No	NA
2022-03-28	2022-03-31	09:35	0.1	0.0	82.92	N-4	-0.01	82.91[e]	No	NA
2022-04-04	2022-04-05	08:45	0.2	0.0	82.86	N-4	-0.01	82.85[e]	No	NA
2022-04-25	2022-04-26	08:40	0.0	0.0	82.90	N-4	-0.01	82.89[e]	No	NA
2022-05-02	2022-05-03	08:35	0.1	0.0	82.87	N-4	-0.01	82.86[e]	No	NA
2022-05-09	2022-05-10	09:25	0.0	1.0	82.93	N-4	-0.01	82.92[e]	No	NA
2022-05-16	2022-05-17	08:42	0.0	0.0	82.85	N-3	-0.01	82.84[e]	No	NA
2022-05-23	2022-05-24	08:18	0.1	0.0	82.85	N-4	-0.01	82.84[e]	No	NA
2022-05-30	2022-05-31	09:27	0.0	0.0	82.85	N-4	-0.01	82.84[e]	No	NA
2022-06-06	2022-06-07	08:34	0.0	0.0	82.87	N-3	-0.01	82.86[e]	No	NA
2022-06-13	2022-06-14	08:47	0.0	0.0	82.92	N-3	-0.01	82.91[e]	No	NA
2022-06-20	2022-06-21	08:50	0.0	0.0	82.94	N-1	-0.02	82.92	No	NA
2022-06-27	2022-06-29	08:20	0.1	0.0	83.05	N-4	-0.01	83.04[e]	No	NA
2022-07-04	2022-07-06	08:40	0.1	0.0	83.04	N-4	-0.01	83.03[e]	No	NA
2022-07-11	2022-07-12	08:43	0.2	0.0	83.10	N-4	-0.01	83.09[e]	No	NA
2022-08-01	2022-08-02	09:20	0.0	0.0	83.18	N-4	-0.01	83.17[e]	No	NA
2022-08-08	2022-08-09	08:45	0.1	0.0	83.24	N-4	-0.01	83.23[e]	No	NA
2022-08-15	2022-08-16	08:25	0.1	0.0	83.27	N-4	-0.01	83.26[e]	No	NA
2022-08-22	2022-08-23	08:58	0.0	0.0	83.34	N-4	-0.01	83.33[e]	No	NA
2022-08-29	2022-08-30	09:00	0.0	0.0	83.42	N-4	-0.01	83.41[e]	No	NA
2022-09-06	2022-09-06	10:00	0.0	0.0	83.38	N-3	-0.01	83.37[e]	No	NA
2022-09-12	2022-09-13	09:15	0.0	0.0	83.43	N-3	-0.01	83.42[e]	No	NA
2022-09-19	2022-09-20	13:15	0.1	0.0	83.40	01-8854	-0.01	83.39[j]	No	NA
2022-09-26	2022-09-27	09:33	0.0	0.0	83.40	N-3	-0.01	83.39[e]	No	NA
2022-10-03	2022-10-04	08:50	0.0	0.0	83.52	N-4	-0.01	83.51[e]	No	NA
2022-10-17	2022-10-18	08:59	0.0	0.0	83.45	N-3	-0.01	83.44[e]	No	NA
2022-10-17	2022-10-20	08:58	0.0	0.1	83.47	N-4	-0.01	83.46[e]	No	NA
2022-10-24	2022-10-25	13:50	0.0	0.0	83.47	N-3	-0.01	83.46[e]	No	NA
2022-10-24	2022-10-27	10:00	0.0	0.0	83.42	N-4	-0.01	83.41[e]	No	NA
2022-10-31	2022-11-01	08:40	0.1	0.0	83.44	N-6	-0.01	83.43[e]	No	NA
2022-10-31	2022-11-03	08:40	0.0	0.0	83.49	N-3	-0.01	83.48[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW06									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/13/2021	12:45	0.0	0.0	241.03	N-2	-0.04	240.99	No	NA
2021-12-20	12/21/2021	15:50	0.0	0.0	240.72	N-1	-0.04	240.68	No	NA
2021-12-27	12/28/2021	07:55	0.0	0.6	240.93	N-2	-0.04	240.89	No	NA
2022-01-03	2022-01-04	07:45	0.0	0.0	240.39	N-2	-0.04	240.35	No	NA
2022-01-10	2022-01-11	08:15	0.0	0.0	240.43	N-2	-0.04	240.39	No	NA
2022-01-16	2022-01-18	11:45	0.0	0.1	240.29	N-1	-0.04	240.25	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-02-28	10:50	0.0	0.0	240.64	N-1	-0.04	240.60	No	NA
2022-03-07	2022-03-07	10:15	0.1	0.2	240.74	N-4	-0.01	240.73[e]	No	NA
2022-03-14	2022-03-16	12:15	0.1	0.1	240.72	N-4	-0.01	240.71[e]	No	NA
2022-03-21	2022-03-23	08:00	0.0	0.0	240.74	N-4	-0.01	240.73[e]	No	NA
2022-03-28	2022-03-30	07:30	0.0	0.0	240.71	N-4	-0.01	240.7[e]	No	NA
2022-04-04	2022-04-04	11:40	0.0	0.0	240.90	N-4	-0.01	240.89[e]	No	NA
2022-04-25	2022-04-25	11:30	0.0	0.0	240.87	N-4	-0.01	240.86[e]	No	NA
2022-05-02	2022-05-04	08:25	0.0	0.0	240.85	N-4	-0.01	240.84[e]	No	NA
2022-05-09	2022-05-11	10:25	0.0	0.0	240.83	N-4	-0.01	240.82[e]	No	NA
2022-05-16	2022-05-16	10:50	0.0	0.0	240.82	N-3	-0.01	240.81[e]	No	NA
2022-05-23	2022-05-23	10:05	0.0	0.0	240.85	N-4	-0.01	240.84[e]	No	NA
2022-05-30	2022-06-03	13:09	0.0	0.0	240.80	N-3	-0.01	240.79[e]	No	NA
2022-06-06	2022-06-08	07:45	0.0	0.0	240.82	N-3	-0.01	240.81[e]	No	NA
2022-06-13	2022-06-15	12:25	0.0	0.0	240.80	N-3	-0.01	240.79[e]	No	NA
2022-06-20	2022-06-22	08:20	0.0	0.0	240.91	N-3	-0.01	240.90[e]	No	NA
2022-06-27	2022-06-30	10:50	0.0	0.0	241.04	N-4	-0.01	241.03[e]	No	NA
2022-07-04	2022-07-08	08:15	0.0	0.0	241.06	N-4	-0.01	241.05[e]	No	NA
2022-07-11	2022-07-14	11:12	0.0	0.0	241.08	N-4	-0.01	241.07[e]	No	NA
2022-08-01	2022-08-03	10:32	0.0	0.0	241.17	N-4	-0.01	241.16[e]	No	NA
2022-08-08	2022-08-10	09:55	0.0	0.0	241.23	N-4	-0.01	241.22[e]	No	NA
2022-08-15	2022-08-17	09:55	0.0	0.0	241.06	N-4	-0.01	241.05[e]	No	NA
2022-08-22	2022-08-24	07:50	0.0	0.0	241.13	N-4	-0.01	241.12[e]	No	NA
2022-08-29	2022-08-31	09:45	0.0	0.0	241.18	N-4	-0.01	241.17[e]	No	NA
2022-09-06	2022-09-09	09:10	0.0	0.0	241.13	N-4	-0.01	241.12[e]	No	NA
2022-09-12	2022-09-14	09:30	0.0	0.0	241.14	N-3	-0.01	241.13[e]	No	NA
2022-09-19	2022-09-23	10:05	0.0	0.0	241.28	01-8854	-0.01	241.27[j]	No	NA
2022-09-26	2022-09-28	14:20	0.0	0.0	241.09	N-5	-0.01	241.08[e]	No	NA
2022-10-03	2022-10-06	10:40	0.0	0.0	241.17	N-3	-0.01	241.16[e]	No	NA
2022-10-17	2022-10-17	10:19	0.0	0.0	241.18	N-5	-0.01	241.17[e]	No	NA
2022-10-17	2022-10-19	11:55	0.0	0.0	241.18	N-3	-0.01	241.17[e]	No	NA
2022-10-24	2022-10-24	09:08	0.0	0.0	241.22	N-6	-0.01	241.21[e]	No	NA
2022-10-24	2022-10-26	10:55	0.0	0.0	241.22	N-6	-0.01	241.21[e]	No	NA
2022-10-31	2022-10-31	12:20	0.0	0.0	241.09	N-5	-0.01	241.08[e]	No	NA
2022-10-31	2022-11-02	10:45	0.0	0.0	241.38	N-6	-0.01	241.37[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW08									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	15:10	0.0	0.0	292.91	N-2	-0.07	292.84	No	NA
2021-12-05	12/8/2021	15:45	0.0	0.0	292.52	N-1	-0.07	292.45	No	NA
2021-12-13	12/16/2021	08:05	0.0	0.0	292.38	N-2	-0.07	292.31	No	NA
2021-12-20	12/23/2021	08:30	0.0	0.0	292.34	N-2	-0.07	292.27	No	NA
2021-12-27	12/28/2021	12:00	0.0	5.1	292.01	N-2	-0.07	291.94	No	NA
2022-01-03	2022-01-04	10:10	0.0	0.0	292.00	N-2	-0.07	291.93	No	NA
2022-01-10	2022-01-11	11:35	0.0	1.0	291.76	N-2	-0.07	291.69	No	NA
2022-01-16	2022-01-18	12:00	0.0	0.0	291.82	N-1	-0.07	291.75	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-02-28	13:10	0.1	0.0	292.11	N-1	-0.07	292.04	No	NA
2022-03-07	2022-03-09	11:20	0.0	0.0	292.21	N-4	-0.03	292.18[e]	No	NA
2022-03-14	2022-03-16	10:25	0.0	0.0	292.23	N-4	-0.03	292.20[e]	No	NA
2022-03-21	2022-03-23	11:15	0.0	0.0	292.22	N-4	-0.03	292.19[e]	No	NA
2022-03-28	2022-03-30	10:58	0.0	0.0	292.19	N-4	-0.03	292.16[e]	No	NA
2022-04-04	2022-04-04	08:55	0.0	0.0	292.35	N-4	-0.03	292.32[e]	No	NA
2022-04-25	2022-04-25	08:20	0.0	0.0	292.38	N-4	-0.03	292.35[e]	No	NA
2022-05-02	2022-05-04	12:25	0.0	0.0	292.34	N-4	-0.03	292.31[e]	No	NA
2022-05-09	2022-05-11	08:18	0.0	0.0	292.30	N-4	-0.03	292.27[e]	No	NA
2022-05-16	2022-05-16	08:35	0.0	0.0	292.35	N-3	-0.03	292.32[e]	No	NA
2022-05-23	2022-05-23	08:40	0.0	0.0	292.33	N-4	-0.03	292.30[e]	No	NA
2022-05-30	2022-06-03	11:15	0.0	0.0	292.31	N-3	-0.03	292.28[e]	No	NA
2022-06-06	2022-06-08	12:30	0.1	0.1	292.30	N-3	-0.03	292.27[e]	No	NA
2022-06-13	2022-06-15	10:45	0.0	0.0	292.27	N-3	-0.03	292.24[e]	No	NA
2022-06-20	2022-06-22	12:05	0.0	0.0	292.37	N-3	-0.03	292.34[e]	No	NA
2022-06-27	2022-06-30	12:28	0.0	0.0	292.52	N-4	-0.03	292.49[e]	No	NA
2022-07-04	2022-07-08	10:34	0.0	0.0	292.55	N-4	-0.03	292.52[e]	No	NA
2022-07-11	2022-07-12	12:56	0.0	0.0	292.57	N-4	-0.03	292.54[e]	No	NA
2022-08-01	2022-08-03	11:55	0.0	0.0	292.64	N-4	-0.03	292.61[e]	No	NA
2022-08-08	2022-08-10	11:40	0.0	0.0	292.71	N-4	-0.03	292.68[e]	No	NA
2022-08-15	2022-08-17	11:17	0.0	0.0	292.53	N-4	-0.03	292.50[e]	No	NA
2022-08-22	2022-08-24	09:05	0.0	0.0	292.62	N-4	-0.03	292.59[e]	No	NA
2022-08-29	2022-08-31	11:05	0.0	0.0	292.66	N-4	-0.03	292.63[e]	No	NA
2022-09-06	2022-09-09	10:15	0.0	0.0	292.63	N-4	-0.03	292.60[e]	No	NA
2022-09-12	2022-09-14	10:55	0.0	0.0	292.60	N-3	-0.03	292.57[e]	No	NA
2022-09-19	2022-09-23	12:25	0.0	0.0	292.79	01-8854	-0.03	292.76[j]	No	NA
2022-09-26	2022-09-28	08:38	0.0	0.0	292.61	N-5	-0.03	292.58[e]	No	NA
2022-10-03	2022-10-05	10:25	0.0	0.0	292.74	N-4	-0.03	292.71[e]	No	NA
2022-10-17	2022-10-17	13:30	0.0	0.0	292.61	N-5	-0.03	292.58[e]	No	NA
2022-10-17	2022-10-19	10:25	0.0	0.0	292.70	N-3	-0.03	292.67[e]	No	NA
2022-10-24	2022-10-24	11:00	0.0	0.0	292.72	N-6	-0.03	292.69[e]	No	NA
2022-10-24	2022-10-26	12:20	0.0	0.0	292.72	N-6	-0.03	292.69[e]	No	NA
2022-10-31	2022-10-31	09:55	0.0	0.0	292.63	N-5	-0.03	292.60[e]	No	NA
2022-10-31	2022-11-02	09:30	0.0	0.0	292.92	N-6	-0.03	292.89[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW09									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/16/2021	13:05	0.0	0.0	377.52	N-2	-0.29	377.23	No	NA
2021-12-20	12/24/2021	08:30	0.0	0.0	377.29	N-1	-0.29	377.00	No	NA
2021-12-27	2022-01-01	09:50	0.1	0.0	377.18	N-2	-0.29	376.89	No	NA
2022-01-03	2022-01-07	11:10	0.0	0.0	377.06	N-2	-0.29	376.77	No	NA
2022-01-10	2022-01-12	13:17	0.0	0.0	377.05	N-1	-0.29	376.76	No	NA
2022-01-16	2022-01-17	12:40	0.0	0.0	377.18[b]	01-5920	-0.24	376.94[b]	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-03	10:45	0.1	0.0	377.38	N-2	-0.29	377.09	No	NA
2022-03-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-03-14	2022-03-16	08:05	0.0	0.0	377.31	N-4	-0.24	377.07[e]	No	NA
2022-03-21	2022-03-21	10:30	0.0	0.0	377.30	N-4	-0.24	377.06[e]	No	NA
2022-03-28	2022-03-28	10:05	0.0	0.0	377.49	N-4	-0.24	377.25[e]	No	NA
2022-04-04	2022-04-08	10:45	0.0	0.0	377.41	N-3	-0.24	377.17[e]	No	NA
2022-04-25	2022-04-28	10:00	0.0	0.0	377.19	N-3	-0.24	376.95[e]	No	NA
2022-05-02	2022-05-02	09:00	0.0	0.0	377.25	N-4	-0.24	377.01[e]	No	NA
2022-05-09	2022-05-09	08:50	0.0	0.0	377.44	N-4	-0.24	377.20[e]	No[f]	0.0
2022-05-16	2022-05-18	08:20	0.0	0.0	377.40	N-3	-0.24	377.16[e]	No	NA
2022-05-23	2022-05-25	08:20	0.0	0.0	377.30	N-4	-0.24	377.06[e]	No	NA
2022-05-30	2022-06-01	09:38	0.0	0.0	377.39	N-3	-0.24	377.15[e]	No	NA
2022-06-06	2022-06-06	08:45	0.0	0.0	377.35	N-3	-0.24	377.11[e]	No	NA
2022-06-13	2022-06-13	15:00	0.0	0.0	377.46	N-3	-0.24	377.22[e]	No	NA
2022-06-20	2022-06-20	08:45	0.0	0.0	377.47	N-3	-0.24	377.23[e]	No	NA
2022-06-27	2022-06-28	08:35	0.0	0.0	377.35	N-3	-0.24	377.11[e]	No	NA
2022-07-04	2022-07-05	08:43	0.0	0.0	377.63	N-4	-0.24	377.39[e]	No	NA
2022-07-11	2022-07-11	10:59	0.0	0.0	377.67	N-4	-0.24	377.43[e]	No	NA
2022-08-01	2022-08-01	08:45	0.0	0.0	377.78	N-4	-0.24	377.54[e]	No	NA
2022-08-08	2022-08-08	08:40	0.0	0.0	377.82	N-4	-0.24	377.58[e]	No	NA
2022-08-15	2022-08-15	08:10	0.0	0.0	377.87	N-4	-0.24	377.63[e]	No	NA
2022-08-22	2022-08-22	08:30	0.0	0.0	377.92	N-4	-0.24	377.68[e]	No	NA
2022-08-29	2022-08-29	08:40	0.0	0.0	377.93	N-4	-0.24	377.69[e]	No	NA
2022-09-06	2022-09-07	07:45	0.0	0.0	377.74	N-3	-0.24	377.50[e]	No	NA
2022-09-12	2022-09-12	08:15	0.0	0.0	377.95	N-3	-0.24	377.71[e]	No	NA
2022-09-19	2022-09-19	09:50	0.0	0.0	378.01	01-8607	-0.24	377.77[j]	No	NA
2022-09-26	2022-09-26	08:55	0.0	0.0	377.77	N-3	-0.24	377.53[e]	No	NA
2022-10-03	2022-10-03	08:05	0.0	0.0	378.05	N-4	-0.24	377.81[e]	No	NA
2022-10-17	2022-10-17	08:15	0.0	0.0	377.88	N-4	-0.24	377.64[e]	No	NA
2022-10-17	2022-10-19	08:30	0.0	0.0	377.86	N-4	-0.24	377.62[e]	No	NA
2022-10-24	2022-10-24	08:00	0.0	0.0	377.87	N-4	-0.24	377.63[e]	No	NA
2022-10-24	2022-10-26	10:45	0.0	0.0	377.95	N-5	-0.24	377.71[e]	No	NA
2022-10-31	2022-10-31	08:20	0.0	0.0	377.80	N-6	-0.24	377.56[e]	No	NA
2022-10-31	2022-11-02	08:15	0.0	0.0	377.87	N-4	-0.24	377.63[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW11**									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/16/2021	10:49	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-20	12/23/2021	09:26	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-27	12/30/2021	10:37	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-03	2022-01-06	09:13	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-10	2022-01-13	08:34	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-16	2022-01-20	08:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-03	07:52	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-07	2022-03-09	09:28	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-14	2022-03-17	08:41	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-21	2022-03-22	00:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-28	2022-03-31	09:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-04	2022-04-07	08:37	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-25	2022-04-28	09:33	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-02	2022-05-05	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-09	2022-05-11	09:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-16	2022-05-19	08:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-23	2022-05-26	09:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-30	2022-06-02	09:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-06	2022-06-09	10:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-13	2022-06-16	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-20	2022-06-23	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-27	2022-07-01	08:22	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-04	2022-07-07	10:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-11	2022-07-13	08:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-01	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
2022-08-08	2022-08-12	12:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-15	2022-08-17	08:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-22	2022-08-22	11:12	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-29	2022-08-29	12:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-06	2022-09-07	11:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-12	2022-09-13	10:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-19	2022-09-20	11:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-26	2022-09-27	11:48	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-03	2022-10-03	09:34	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-17	12:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-21	15:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-24	11:58	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-28	16:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-02	13:08	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-04	09:56	0.0	0.0	NA	NA	NA	NA	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW12A*									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/14/2021	14:15	0.1	0.1	220.48	N-1	-0.03	220.45	No	NA
2021-12-20	12/22/2021	12:45	0.0	0.0	220.31	N-1	-0.03	220.28	No[2]	NA
2021-12-27	12/27/2021	13:05	0.1	0.0	220.29	N-2	-0.03	220.26	No	NA
2022-01-03	2022-01-05	11:15	0.0	0.0	219.54	N-2	-0.03	219.51	No	NA
2022-01-10	2022-01-12	12:22	0.0	4.1	219.93	N-2	-0.03	219.90	No	NA
2022-01-16	2022-01-17	12:00	0.0	0.0	219.93	N-2	-0.03	219.90	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-01	12:05	0.1	0.0	220.19	N-2	-0.03	220.16	No	NA
2022-03-07	2022-03-08	10:55	0.1	0.0	220.26	N-2	-0.03	220.23	No	NA
2022-03-14	2022-03-15	12:05	0.0	0.0	220.24	N-2	-0.03	220.21	No	NA
2022-03-21	2022-03-22	08:30	0.0	0.0	220.29	N-4	pending	220.29[e]	No	NA
2022-03-28	2022-03-29	10:20	0.1	0.1	220.18	N-3	pending	220.18[e]	No	NA
2022-04-04	2022-04-04	11:20	0.0	0.0	220.17	N-3	pending	220.17[e]	No	NA
2022-04-25	2022-04-26	11:00	0.0	0.0	220.17	N-3	pending	220.17[e]	No	NA
2022-05-02	2022-05-03	11:10	0.0	0.0	220.15	N-3	pending	220.15[e]	No	NA
2022-05-09	2022-05-10	10:28	0.0	0.0	220.14	N-3	pending	220.14[e]	No	NA
2022-05-16	2022-05-17	10:40	0.0	0.0	220.21	N-4	pending	220.21[e]	No	NA
2022-05-23	2022-05-24	11:00	0.0	0.0	220.11	N-3	pending	220.11[e]	No	NA
2022-05-30	2022-06-01	10:40	0.1	0.0	220.18	N-4	pending	220.18[e]	No	NA
2022-06-06	2022-06-07	09:55	0.0	0.0	220.20	N-4	pending	220.20[e]	No	NA
2022-06-13	2022-06-14	09:55	0.0	0.0	220.28	N-4	pending	220.28[e]	No	NA
2022-06-20	2022-06-21	11:05	0.0	0.0	220.22	N-3	pending	220.22[e]	No	NA
2022-06-27	2022-06-29	10:35	0.0	0.0	220.32	N-3	pending	220.32[e]	No	NA
2022-07-04	2022-07-05	08:45	0.0	0.0	220.36	N-3	pending	220.36[e]	No	NA
2022-07-11	2022-07-11	11:01	0.0	0.0	220.38	N-3	pending	220.38[e]	No	NA
2022-08-01	2022-08-02	10:20	0.0	0.1	220.49	N-3	pending	220.49[e]	No	NA
2022-08-08	2022-08-09	09:55	0.0	0.0	220.55	N-3	pending	220.55[e]	No	NA
2022-08-15	2022-08-16	10:05	0.0	0.0	220.55	N-3	pending	220.55[e]	No	NA
2022-08-22	2022-08-25	09:35	0.0	0.0	220.63	N-3	pending	220.63[e]	No	NA
2022-08-29	2022-09-01	10:00	0.0	0.0	220.73	N-4	pending	220.73[e]	No	NA
2022-09-06	2022-09-07	10:05	0.0	0.0	220.76	N-4	pending	220.76[e]	No	NA
2022-09-12	2022-09-13	10:35	0.0	0.0	220.70	N-4	pending	220.70[e]	No	NA
2022-09-19	2022-09-22	08:20	0.0	0.0	220.77	01-8854	pending	220.77[j]	No	NA
2022-09-26	2022-09-27	10:50	0.0	0.0	220.61	N-5	pending	220.61[e]	No	NA
2022-10-03	2022-10-04	09:45	0.0	0.2	220.70	N-3	pending	220.70[e]	No	NA
2022-10-17	2022-10-18	11:13	0.1	0.0	220.70	N-6	pending	220.70[e]	No	NA
2022-10-17	2022-10-20	08:00	0.0	0.0	220.75	N-6	pending	220.75[e]	No	NA
2022-10-24	2022-10-24	10:15	0.0	0.0	220.69	N-5	pending	220.69[e]	No	NA
2022-10-24	2022-10-27	07:50	0.1	0.2	220.66	N-5	pending	220.66[e]	No	NA
2022-10-31	2022-11-01	08:20	0.0	0.0	220.78	N-4	pending	220.78[e]	No	NA
2022-10-31	2022-11-03	10:10	0.0	0.1	220.76	N-6	pending	220.76[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW13**									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/15/2021	09:15	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-20	12/22/2021	08:52	0.0	10.9	NA	NA	NA	NA	No	NA
2021-12-27	12/29/2021	09:52	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-03	2022-01-05	08:59	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-10	2022-01-12	08:58	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-16	2022-01-19	09:35	0.0	0.1	NA	NA	NA	NA	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	08:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-07	2022-03-10	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-14	2022-03-16	08:57	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-21	2022-03-23	09:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-28	2022-03-30	08:10	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-04	2022-04-06	08:37	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-25	2022-04-27	09:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-02	2022-05-04	08:25	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-09	2022-05-12	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-16	2022-05-18	08:10	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-23	2022-05-25	09:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-30	2022-06-01	08:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-06	2022-06-10	08:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-13	2022-06-15	08:02	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-20	2022-06-22	08:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-27	2022-06-30	08:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-04	2022-07-06	09:08	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-11	2022-07-12	07:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-01	2022-08-03	08:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-08	2022-08-13	08:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-15	2022-08-18	08:25	0.0	0.3	NA	NA	NA	NA	No	NA
2022-08-22	2022-08-24	10:22	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-29	2022-08-31	08:38	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-06	2022-09-09	09:08	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-12	2022-09-14	08:10	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-19	2022-09-21	08:41	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-26	2022-09-28	09:35	0.0	0.1	NA	NA	NA	NA	No	NA
2022-10-03	2022-10-06	09:36	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-19	10:11	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-21	09:41	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-26	09:21	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-28	09:27	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-10-31	09:04	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-04	09:50	0.0	0.0	NA	NA	NA	NA	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW14**									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/13/2021	10:35	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-20	12/20/2021	08:50	0.6	0.6	NA	NA	NA	NA	No	NA
2021-12-27	12/27/2021	10:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-03	2022-01-03	08:18	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-10	2022-01-10	10:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-16	2022-01-18	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-01	09:33	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-07	2022-03-08	07:41	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-14	2022-03-15	08:52	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-21	2022-03-22	08:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-28	2022-03-29	08:36	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-04	2022-04-05	08:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-25	2022-04-26	09:06	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-02	2022-05-03	08:36	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-09	2022-05-10	09:12	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-16	2022-05-17	08:24	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-23	2022-05-24	08:39	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-30	2022-05-31	08:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-06	2022-06-07	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-13	2022-06-14	08:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-20	2022-06-21	08:43	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-27	2022-06-29	08:19	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-04	2022-07-05	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-11	2022-07-14	08:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-01	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
2022-08-08	2022-08-13	12:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-15	2022-08-16	08:19	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-22	2022-08-22	08:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-29	2022-08-29	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-06	2022-09-07	08:56	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-12	2022-09-13	08:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-19	2022-09-20	08:43	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-26	2022-09-27	08:54	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-03	2022-10-04	08:54	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-17	08:54	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-19	14:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-24	09:09	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-26	13:32	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-10-31	13:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-02	08:25	0.0	0.0	NA	NA	NA	NA	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW15**									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/2/2021	09:15	0.0	1.1	NA	NA	NA	NA	No	NA
2021-12-05	12/9/2021	09:30	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-13	12/14/2021	08:55	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-20	12/21/2021	09:09	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-27	12/28/2021	09:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-03	2022-01-04	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-10	2022-01-11	08:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-16	2022-01-16	08:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-04	08:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-07	2022-03-07	07:38	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-14	2022-03-14	09:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-21	2022-03-21	08:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-28	2022-03-28	09:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-04	2022-04-04	09:14	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-25	2022-04-25	08:56	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-02	2022-05-02	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-09	2022-05-09	09:11	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-16	2022-05-16	08:26	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-23	2022-05-23	08:23	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-30	2022-06-03	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-06	2022-06-06	09:21	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-13	2022-06-13	08:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-20	2022-06-20	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-27	2022-06-28	09:08	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-04	2022-07-08	10:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-11	2022-07-11	08:51	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-01	2022-08-02	09:32	0.0	2.5[h]	NA	NA	NA	NA	No	NA
2022-08-08	2022-08-12	08:26	0.0	0.5	NA	NA	NA	NA	No	NA
2022-08-15	2022-08-15	08:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-22	2022-08-23	09:02	0.0	1.3	NA	NA	NA	NA	No	NA
2022-08-29	2022-08-30	09:36	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-06	2022-09-06	09:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-12	2022-09-12	09:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-19	2022-09-19	09:36	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-26	2022-09-26	10:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-03	2022-10-04	10:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-18	10:38	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-20	08:56	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-25	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-27	08:44	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-01	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-03	08:56	0.0	0.0	NA	NA	NA	NA	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW16*									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/14/2021	09:30	0.1	0.1	202.28	N-1	-0.03	202.25	No	NA
2021-12-20	12/22/2021	09:09	NC2	NC2	201.54	N-1	-0.03	201.51	No[2]	NA
2021-12-27	12/29/2021	07:45	0.0	0.6	201.54	N-1	-0.03	201.51	No	NA
2022-01-03	2022-01-05	08:00	0.0	0.0	201.22	N-2	-0.03	201.19	No	NA
2022-01-10	2022-01-12	08:20	0.0	0.0	201.16	N-2	-0.03	201.13	No	NA
2022-01-16	2022-01-17	08:45	0.0	0.1	201.13	N-2	-0.03	201.10	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-01	07:30	0.1	0.0	201.98	N-2	-0.03	201.95	No	NA
2022-03-07	2022-03-08	07:30	0.1	0.0	201.51	N-2	-0.03	201.48	No	NA
2022-03-14	2022-03-15	09:10	0.0	3.4	201.54	N-2	-0.03	201.51	No	NA
2022-03-21	2022-03-22	11:45	0.0	0.0	201.52	N-4	pending	201.52[e]	No	NA
2022-03-28	2022-03-31	08:45	0.1	6.7	201.45	N-3	pending	201.45[e]	No	NA
2022-04-04	2022-04-04	07:50	0.0	0.5	201.44	N-3	pending	201.44[e]	No	NA
2022-04-25	2022-04-26	08:00	0.0	0.0	201.42	N-3	pending	201.42[e]	No	NA
2022-05-02	2022-05-03	08:00	0.0	0.0	201.40	N-3	pending	201.40[e]	No	NA
2022-05-09	2022-05-10	08:00	0.0	0.0	201.41	N-3	pending	201.41[e]	No	NA
2022-05-16	2022-05-17	08:10	0.0	0.0	201.45	N-4	pending	201.45[e]	No	NA
2022-05-23	2022-05-23	08:20	0.1	0.7	201.37	N-3	pending	201.37[e]	No	NA
2022-05-30	2022-06-01	07:50	0.1	0.0	201.42	N-4	pending	201.42[e]	No	NA
2022-06-06	2022-06-07	08:00	0.0	0.0	201.46	N-4	pending	201.46[e]	No	NA
2022-06-13	2022-06-14	07:51	0.0	0.0	201.50	N-4	pending	201.50[e]	No	NA
2022-06-20	2022-06-21	08:40	0.0	0.0	201.47	N-3	pending	201.47[e]	No	NA
2022-06-27	2022-06-29	08:00	0.0	0.0	201.57	N-3	pending	201.57[e]	No	NA
2022-07-04	2022-07-08	10:25	0.0	0.1	201.58	N-3	pending	201.58[e]	No	NA
2022-07-11	2022-07-11	08:15	0.0	0.0	201.62	N-3	pending	201.62[e]	No	NA
2022-08-01	2022-08-02	08:10	0.0	0.1	201.74	N-3	pending	201.74[e]	No	NA
2022-08-08	2022-08-09	08:10	0.0	0.0	201.77	N-3	pending	201.77[e]	No	NA
2022-08-15	2022-08-16	08:00	0.0	0.0	201.83	N-3	pending	201.83[e]	No	NA
2022-08-22	2022-08-25	07:55	0.0	0.9	201.88	N-3	pending	201.88[e]	No	NA
2022-08-29	2022-09-01	08:09	0.0	0.1	201.96	N-4	pending	201.96[e]	No	NA
2022-09-06	2022-09-07	08:00	0.0	0.0	201.99	N-4	pending	201.99[e]	No	NA
2022-09-12	2022-09-13	07:55	0.0	0.0	201.93	N-4	pending	201.93[e]	No	NA
2022-09-19	2022-09-22	11:20	0.0	0.0	201.96	01-8854	pending	201.96[j]	No	NA
2022-09-26	2022-09-27	08:10	0.0	0.2	201.85	N-5	pending	201.85[e]	No	NA
2022-10-03	2022-10-04	07:50	0.0	0.2	201.95	N-3	pending	201.95[e]	No	NA
2022-10-17	2022-10-18	08:15	0.0	0.3	201.97	N-6	pending	201.97[e]	No	NA
2022-10-17	2022-10-20	10:35	0.1	0.0	201.93	N-6	pending	201.93[e]	No	NA
2022-10-24	2022-10-24	08:15	0.0	0.0	201.91	N-5	pending	201.91[e]	No	NA
2022-10-24	2022-10-27	10:03	0.1	0.1	201.90	N-5	pending	201.90[e]	No	NA
2022-10-31	2022-11-01	11:08	0.0	0.1	201.96	N-4	pending	201.96[e]	No	NA
2022-10-31	2022-11-03	08:00	0.0	0.1	202.18	N-6	pending	202.18[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW17									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2022-06-13	6/15/2022[g]	12:20	0.0	8.8	237.90	N-4	pending	237.90[e]	No	NA
2022-06-20	2022-06-23	12:05	0.0	0.1	234.00	N-1	0.00	234.00	No	NA
2022-06-27	2022-07-01	12:40	0.0	0.0	234.09	N-4	pending	234.09[e]	No	NA
2022-07-04	2022-07-06	11:55	0.0	0.0	234.07	N-3	pending	234.07[e]	No	NA
2022-07-11	2022-07-12	12:40	0.0	0.0	234.07	N-3	pending	234.07[e]	No	NA
2022-08-01	2022-08-03	10:45	0.0	0.0	234.21	N-2	-0.03	234.18[e]	No	NA
2022-08-08	2022-08-10	10:50	0.0	0.2	234.25	N-3	pending	234.25[e]	No	NA
2022-08-15	2022-08-17	10:20	0.0	0.0	234.33	N-4	pending	234.33[e]	No	NA
2022-08-22	2022-08-24	11:20	0.1	0.3	234.36	N-3	pending	234.36[e]	No	NA
2022-08-29	2022-08-31	12:13	0.0	0.0	234.44	N-4	pending	234.44[e]	No	NA
2022-09-06	2022-09-09	12:50	0.0	0.0	234.23	N-4	pending	234.23[e]	No	NA
2022-09-12	2022-09-14	10:53	0.0	0.0	234.50	N-4	pending	234.50[e]	No	NA
2022-09-19	2022-09-21	12:15	0.0	0.0	234.52	01-8854	pending	234.42[j]	No	NA
2022-09-26	2022-09-28	14:15	0.0	0.1	234.41	N-3	pending	234.41[e]	No	NA
2022-10-03	2022-10-05	12:17	0.0	0.3	234.44	N-3	pending	234.44[e]	No	NA
2022-10-17	2022-10-19	11:10	0.0	0.0	234.49	N-6	pending	234.49[e]	No	NA
2022-10-17	2022-10-21	11:25	0.0	0.0	234.54	N-3	pending	234.54[e]	No	NA
2022-10-24	2022-10-25	11:55	0.0	0.0	234.52	N-3	pending	234.52[e]	No	NA
2022-10-24	2022-10-28	11:45	0.0	0.1	234.45	N-4	pending	234.45[e]	No	NA
2022-10-31	2022-11-01	12:15	0.0	0.0	234.45	N-3	pending	234.45[e]	No	NA
2022-10-31	2022-11-03	11:00	0.0	0.0	234.49	N-5	pending	234.49[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW19									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-01-03	2022-01-07	14:20	0.1	0.3	426.07	N-2	-0.06	426.01	No	NA
2022-01-10	2022-01-12	09:10	0.0	0.0	426.09	N-2	-0.06	426.03	No	NA
2022-01-16	2022-01-19	08:20	0.0	0.0	425.84	N-2	-0.06	425.78	No	NA
2022-01-24	2022-01-25	08:00	0.0	0.0	425.84	N-2	-0.06	425.78	No	NA
2022-01-31	2022-02-02	10:25	0.0	0.0	426.32	N-2	-0.06	426.26	No	NA
2022-02-07	2022-02-09	09:08	0.0	0.0	426.41	N-2	-0.06	426.35	No	NA
2022-02-14	2022-02-17	07:55	0.0	0.0	426.48	N-2	-0.06	426.42	No	NA
2022-02-21	2022-02-24	07:15	0.0	0.0	426.28	N-2	-0.06	426.22	No	NA
2022-02-28	2022-03-04	13:45	0.0	0.0	426.23	N-2	-0.06	426.17	No	NA
2022-03-07	2022-03-09	07:40	0.0	0.0	426.49	N-4	pending	426.49[e]	No	NA
2022-03-14	2022-03-14	08:30	0.0	0.0	426.50	N-4	pending	426.50[e]	No	NA
2022-03-21	2022-03-21	08:10	0.0	0.0	426.48	N-4	pending	426.48[e]	No	NA
2022-03-28	2022-03-28	08:10	0.0	0.0	426.47	N-4	pending	426.47[e]	No	NA
2022-04-04	2022-04-08	08:25	0.0	0.0	426.39	N-3	pending	426.39[e]	No	NA
2022-04-25	2022-04-28	12:45	0.0	0.0	426.13	N-3	pending	426.13[e]	No	NA
2022-05-02	2022-05-02	11:40	0.0	0.0	426.41	N-4	pending	426.41[e]	No	NA
2022-05-09	2022-05-09	11:20	0.0	0.0	426.40	N-4	pending	426.40[e]	No	NA
2022-05-16	2022-05-18	10:38	0.0	0.0	426.34	N-4	pending	426.34[e]	No	NA
2022-05-23	2022-05-25	10:20	0.0	0.0	426.30	N-4	pending	426.30[e]	No	NA
2022-05-30	2022-06-01	11:05	0.0	0.0	426.33	N-3	pending	426.33[e]	No	NA
2022-06-06	2022-06-06	12:00	0.0	0.0	426.15	N-3	pending	426.15[e]	No	NA
2022-06-13	2022-06-16	15:35	0.0	0.0	426.38	N-3	pending	426.38[e]	No	NA
2022-06-20	2022-06-20	10:40	0.0	0.0	426.43	N-3	pending	426.43[e]	No	NA
2022-06-27	2022-06-28	11:07	0.0	0.0	426.33	N-3	pending	426.33[e]	No	NA
2022-07-04	2022-07-05	11:42	0.0	0.0	426.60	N-4	pending	426.6[e]	No	NA
2022-07-11	2022-07-11	08:52	0.0	0.0	426.64	N-4	pending	426.64[e]	No	NA
2022-08-01	2022-08-01	10:45	0.0	0.0	426.76	N-4	pending	426.76[e]	No	NA
2022-08-08	2022-08-08	10:25	0.0	0.0	426.79	N-4	pending	426.79[e]	No	NA
2022-08-15	2022-08-15	10:38	0.0	0.0	426.83	N-4	pending	426.83[e]	No	NA
2022-08-22	2022-08-22	10:30	0.0	0.0	426.89	N-4	pending	426.89[e]	No	NA
2022-08-29	2022-08-29	10:35	0.0	0.0	426.90	N-4	pending	426.90[e]	No	NA
2022-09-06	2022-09-07	09:30	0.0	0.0	426.70	N-3	pending	426.70[e]	No	NA
2022-09-12	2022-09-12	09:35	0.0	0.0	426.88	N-3	pending	426.88[e]	No	NA
2022-09-19	2022-09-19	12:20	0.0	0.0	427.28	01-8607	pending	427.28[j]	No	NA
2022-09-26	2022-09-26	11:10	0.0	0.0	426.90	N-3	pending	426.90[e]	No	NA
2022-10-03	2022-10-03	10:25	0.0	0.0	426.99	N-4	pending	426.99[e]	No	NA
2022-10-17	2022-10-17	10:15	0.0	0.0	427.10	N-4	pending	427.10[e]	No	NA
2022-10-17	2022-10-19	10:30	0.0	0.0	426.79	N-4	pending	426.79[e]	No	NA
2022-10-24	2022-10-24	10:20	0.0	0.1	426.83	N-4	pending	426.83[e]	No	NA
2022-10-24	2022-10-26	08:40	0.0	0.0	426.75	N-5	pending	426.75[e]	No	NA
2022-10-31	2022-10-31	10:23	0.0	0.0	426.95	N-6	pending	426.95[e]	No	NA
2022-10-31	2022-11-02	11:20	0.0	0.0	427.02	N-4	pending	427.02[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	OWDFMW01*									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Corrected	DTW[d]	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		DTW[d] (ft btoc)	(ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	11:40	0.1	0.1	120.44	N-2	-0.05	120.39	No[1]	NA
2021-12-05	12/8/2021	13:05	0.2	0.1	120.05	N-2	-0.05	120.00	No	NA
2021-12-13	12/13/2021	08:20	0.0	0.0	119.98	N-2	-0.05	119.93	No	NA
2021-12-20	12/21/2021	11:30	0.0	0.0	119.76	N-1	-0.05	119.71	No	NA
2021-12-27	12/27/2021	14:00	0.0	0.0	119.75	N-2	-0.05	119.70	No	NA
2022-01-03	2022-01-04	12:40	0.0	0.0	119.52	N-2	-0.05	119.47	No	NA
2022-01-10	2022-01-11	07:40	0.0	0.0	119.45	N-2	-0.05	119.40	No	NA
2022-01-16	2022-01-17	09:00	0.0	0.0	119.47[b]	01-7350	-0.03	119.44[b]	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-03	10:45	0.0	0.0	119.88[b]	311836	-0.03	119.85[b]	No	NA
2022-03-07	2022-03-10	07:25	0.0	0.0	119.91	N-3	-0.03	119.88[e]	No	NA
2022-03-14	2022-03-15	12:51	0.0	0.0	119.88	N-3	-0.03	119.85[e]	No	NA
2022-03-21	2022-03-23	08:18	0.0	0.0	119.55	N-3	-0.03	119.52[e]	No	NA
2022-03-28	2022-03-30	08:10	0.5	0.0	119.68	N-3	-0.03	119.65[e]	No	NA
2022-04-04	2022-04-07	08:45	0.0	0.0	119.84	N-3	-0.03	119.81[e]	No	NA
2022-04-25	2022-04-27	08:15	0.0	0.0	119.63	N-3	-0.03	119.60[e]	No	NA
2022-05-02	5/4/2022	08:15	0.0	0.0	119.64	N-3	-0.03	119.61[e]	No	NA
2022-05-09	2022-05-11	08:20	0.0	0.0	119.82	N-3	-0.03	119.79[e]	No	NA
2022-05-16	2022-05-20	09:30	0.0	0.0	119.81	N-3	-0.03	119.78[e]	No	NA
2022-05-23	2022-05-25	07:50	0.0	0.0	119.87	N-3	-0.03	119.84[e]	No	NA
2022-05-30	2022-05-31	08:00	0.0	0.0	119.80	N-3	-0.03	119.77[e]	No	NA
2022-06-06	2022-06-09	07:45	0.0	0.0	119.92	N-4	-0.03	119.89[e]	No	NA
2022-06-13	2022-06-15	08:02	0.0	0.0	119.92	N-4	-0.03	119.89[e]	No	NA
2022-06-20	2022-06-24	07:45	0.0	0.0	120.00	N-4	-0.03	119.97[e]	No	NA
2022-06-27	2022-06-28	09:00	0.1	0.0	119.79	N-4	-0.03	119.76[e]	No	NA
2022-07-04	2022-07-06	08:00	0.0	0.0	120.02	N-3	-0.03	119.99[e]	No	NA
2022-07-11	2022-07-12	08:00	0.0	0.0	120.05	N-3	-0.03	120.02[e]	No	NA
2022-08-01	2022-08-03	07:50	0.0	0.1	119.98	N-3	-0.03	119.95[e]	No	NA
2022-08-08	2022-08-10	08:00	0.0	0.0	120.15	N-3	-0.03	120.12[e]	No	NA
2022-08-15	2022-08-17	11:05	0.0	0.0	119.67	N-3	-0.03	119.64[e]	No	NA
2022-08-22	2022-08-24	08:00	0.0	0.0	120.29	N-3	-0.03	120.26[e]	No	NA
2022-08-29	2022-08-31	08:35	0.0	0.0	120.36	N-3	-0.03	120.33[e]	No	NA
2022-09-06	2022-09-09	07:40	0.0	0.0	120.37	N-4	-0.03	120.34[e]	No	NA
2022-09-12	2022-09-14	07:55	0.0	0.0	120.31	N-1	-0.05	120.26[e]	No	NA
2022-09-19	2022-09-21	08:10	0.0	0.0	120.52	287303	-0.03	120.49[j]	No	NA
2022-09-26	2022-09-28	08:20	0.0	0.6	120.38	N-3	-0.03	120.35[e]	No	NA
2022-10-03	2022-10-05	08:00	0.0	0.1	120.42	N-3	-0.03	120.39[e]	No	NA
2022-10-17	2022-10-19	08:00	0.0	0.0	120.44	N-6	-0.03	120.41[e]	No	NA
2022-10-17	2022-10-21	07:50	0.0	0.0	120.46	N-3	-0.03	120.43[e]	No	NA
2022-10-24	2022-10-25	08:00	0.0	0.0	120.45	N-3	-0.03	120.42[e]	No	NA
2022-10-24	2022-10-28	07:45	0.0	0.1	120.44	N-3	-0.03	120.41[e]	No	NA
2022-10-31	2022-11-02	08:10	0.0	0.0	120.41	N-5	-0.03	120.38[e]	No	NA
2022-10-31	2022-11-04	07:50	0.0	0.0	120.41	N-3	-0.03	120.38[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	RHMW2254-01									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	12/8/2021	10:03	0.0	110.1	NA	NA	NA	NA	Yes	NA
2021-12-13	12/15/2021	08:15	0.0	78.4	NA	NA	NA	NA	Yes	NA
2021-12-20	12/21/2021	08:10	0.4	0.4	NA	NA	NA	NA	No	NA
2021-12-27	12/27/2021	09:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-03	2022-01-03	08:20	0.4	0.4	NA	NA	NA	NA	No	NA
2022-01-10	2022-01-10	09:30	0.2	0.2	NA	NA	NA	NA	No	NA
2022-01-16	2022-01-20	08:50	1.1	1.1	NA	NA	NA	NA	No	NA
2022-01-24	2022-01-24	08:00	0.1	0.1	NA	NA	NA	NA	No	NA
2022-01-31	2022-02-03	08:35	1.6	1.6	87.86	N-1	-0.01	87.85	No	NA
2022-02-07	2022-02-10	08:45	0.0	0.0	87.91	N-1	-0.01	87.90	No	NA
2022-02-14	2022-02-17	08:15	0.6	0.6	87.90	N-1	-0.01	87.89	No	NA
2022-02-21	2022-02-22	08:23	1.4	1.4	87.96	N-1	-0.01	87.95	No	NA
2022-02-28	2022-03-03	08:10	0.2	0.2	88.12[b]	311836	0.00	88.12[b]	No	NA
2022-03-07	2022-03-09	12:50	0.0	0.0	88.01	N-2	-0.01	88.00	No	NA
2022-03-14	2022-03-17	08:30	0.0	0.0	87.99	N-2	-0.01	87.98	No	NA
2022-03-21	2022-03-24	08:30	0.8	0.8	87.97	N-2	-0.01	87.96	No	NA
2022-03-28	2022-03-29	09:55	0.0	0.0	87.94	N-2	-0.01	87.93	No	NA
2022-04-04	2022-04-07	09:45	0.3	0.3	87.86	N-1	-0.01	87.85	No	NA
2022-04-25	2022-04-28	10:00	0.1	0.1	87.83	N-1	-0.01	87.82	No	NA
2022-05-02	2022-05-05	10:20	0.4	0.4	87.81	N-1	-0.01	87.80	No	NA
2022-05-09	2022-05-12	08:45	0.0	0.0	87.84	N-1	-0.01	87.83	No	NA
2022-05-16	2022-05-19	08:30	0.0	0.0	87.88	N-1	-0.01	87.87	No	NA
2022-05-23	2022-05-26	10:15	0.0	0.0	87.82	N-1	-0.01	87.81	No	NA
2022-05-30	2022-06-02	09:37	0.0	0.1	88.08	N-2	-0.01	88.07	No	NA
2022-06-06	2022-06-09	08:30	0.0	0.0	88.17	N-1	-0.01	88.16	No	NA
2022-06-13	2022-06-16	08:15	0.0	0.0	87.96	N-1	-0.01	87.95	No	NA
2022-06-20	2022-06-23	09:36	0.0	0.0	87.99	N-1	-0.01	87.98	No	NA
2022-06-27	2022-07-01	08:55	0.0	0.0	88.09	N-1	-0.01	88.08	No	NA
2022-07-04	2022-07-07	08:35	0.0	0.0	88.08	N-1	-0.01	88.07	No	NA
2022-07-11	2022-07-13	08:18	0.0	0.0	88.09	N-1	-0.01	88.08	No	NA
2022-08-01	2022-08-04	08:40	0.0	0.0	88.12	N-1	-0.01	88.11	No	NA
2022-08-08	2022-08-11	12:55	0.0	0.0	88.16	N-1	-0.01	88.15	No	NA
2022-08-15	2022-08-18	11:30	0.0	0.3	88.08	N-1	-0.01	88.07	No	NA
2022-08-22	2022-08-25	09:50	0.0	0.0	88.53	N-1	-0.01	88.52	Yes[i]	0.0
2022-08-29	2022-09-01	09:34	0.1	0.1	88.46	N-1	-0.01	88.45	No	NA
2022-09-06	2022-09-08	08:15	0.0	0.0	88.48	N-1	-0.01	88.47	No	NA
2022-09-12	2022-09-15	08:05	0.0	0.0	88.48	N-1	-0.01	88.47	No	NA
2022-09-19	2022-09-22	11:55	0.1	0.1	88.86	01-8859	pending	88.86[j]	No	NA
2022-09-26	2022-09-29	08:36	0.0	0.0	88.45	N-3	pending	88.45[e]	No	NA
2022-10-03	2022-10-06	08:20	0.0	0.0	88.47	N-1	-0.01	88.46	No	NA
2022-10-17	2022-10-18	08:18	0.0	0.0	88.49	N-5	pending	88.49[e]	No	NA
2022-10-17	2022-10-20	08:45	0.0	0.0	88.46	N-1	-0.01	88.45	No	NA
2022-10-24	2022-10-25	08:40	0.0	0.0	88.62	N-5	pending	88.62[e]	No	NA
2022-10-24	2022-10-27	08:00	0.0	0.0	88.46	N-3	pending	88.46[e]	No	NA
2022-10-31	2022-11-01	08:30	0.0	0.0	88.66	N-3	pending	88.66[e]	No	NA
2022-10-31	2022-11-03	08:20	0.0	0.0	88.43	N-5	pending	88.43[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	OWDFMW04A									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	12/30/2021	08:49	13.1	0.0	148.55	N-1	-0.02	148.53	No	NA
2022-01-03	2022-01-06	12:40	0.0	0.0	148.23	N-2	-0.02	148.21	No	NA
2022-01-10	2022-01-13	11:30	0.0	0.0	148.23	N-2	-0.02	148.21	No	NA
2022-01-16	2022-01-16	11:48	0.0	0.0	148.19	N-2	-0.02	148.17	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	10:40	0.1	0.0	148.69	N-2	-0.02	148.67	No	NA
2022-03-07	2022-03-09	10:30	0.1	0.0	148.40	N-3	pending	148.40[e]	No	NA
2022-03-14	2022-03-16	11:20	0.1	0.0	148.68	N-3	pending	148.68[e]	No	NA
2022-03-21	2022-03-21	11:20	0.4	0.2	148.68	N-3	pending	148.68[e]	No	NA
2022-03-28	2022-03-28	10:50	0.1	0.0	148.63	N-3	pending	148.63[e]	No	NA
2022-04-04	2022-04-05	10:20	0.0	0.2	148.61	N-3	pending	148.61[e]	No	NA
2022-04-25	2022-04-25	10:04	0.0	0.0	148.62	N-3	pending	148.62[e]	No	NA
2022-05-02	2022-05-02	11:00	0.0	0.0	148.62	N-3	pending	148.62[e]	No	NA
2022-05-09	2022-05-09	12:15	0.0	0.0	148.57	N-3	pending	148.57[e]	No	NA
2022-05-16	2022-05-18	10:18	0.0	0.0	148.65	N-4	pending	148.65[e]	No	NA
2022-05-23	2022-05-23	12:10	0.0	0.0	148.56	N-3	pending	148.56[e]	No	NA
2022-05-30	2022-06-03	10:10	0.1	0.0	148.63	N-4	pending	148.63[e]	No	NA
2022-06-06	2022-06-06	11:25	0.0	0.0	148.63	N-4	pending	148.63[e]	No	NA
2022-06-13	2022-06-13	10:15	0.0	0.0	148.74	N-4	pending	148.74[e]	No	NA
2022-06-20	2022-06-22	10:35	0.0	0.1	148.72	N-4	pending	148.72[e]	No	NA
2022-06-27	2022-06-30	10:45	0.0	0.0	148.80	N-3	pending	148.80[e]	No	NA
2022-07-04	2022-07-05	13:05	0.0	0.0	148.78	N-3	pending	148.78[e]	No	NA
2022-07-11	2022-07-15	10:45	0.0	0.0	148.84	N-3	pending	148.84[e]	No	NA
2022-08-01	2022-08-01	10:40	0.0	0.0	148.93	N-3	pending	148.93[e]	No	NA
2022-08-08	2022-08-08	10:15	0.0	0.1	148.95	N-3	pending	148.95[e]	No	NA
2022-08-15	2022-08-15	10:55	0.1	0.1	148.98	N-3	pending	148.98[e]	No	NA
2022-08-22	2022-08-22	09:45	0.0	0.1	149.07	N-3	pending	149.07[e]	No	NA
2022-08-29	2022-08-29	11:30	0.0	0.0	149.07	N-3	pending	149.07[e]	No	NA
2022-09-06	2022-09-06	11:10	0.0	0.0	149.14	N-4	pending	149.14[e]	No	NA
2022-09-12	2022-09-12	11:05	0.0	0.0	149.05	N-4	pending	149.05[e]	No	NA
2022-09-19	2022-09-21	11:10	0.0	0.0	149.09	25142	pending	149.08[j]	No	NA
2022-09-26	2022-09-26	11:55	0.0	0.0	149.06	N-1	-0.02	149.04	No	NA
2022-10-03	2022-10-03	10:35	0.0	0.0	149.05	N-3	pending	149.05[e]	No	NA
2022-10-17	2022-10-17	12:10	0.0	0.0	149.17	N-3	pending	149.17[e]	No	NA
2022-10-17	2022-10-21	12:50	0.0	0.0	149.12	N-6	pending	149.12[e]	No	NA
2022-10-24	2022-10-26	11:25	0.0	0.0	149.13	N-3	pending	149.13[e]	No	NA
2022-10-24	2022-10-28	11:30	0.0	32.4[k]	149.05	N-6	pending	149.05[e]	No	NA
2022-10-31	2022-10-31	10:45	0.0	0.0	149.05	N-3	pending	149.05[e]	No	NA
2022-10-31	2022-11-04	10:29	0.0	0.0	148.96	N-5	pending	148.96[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	OWDFMW05A									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WL SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	12/31/2021	09:15	0.0	0.0	100.29	N-1	-0.01	100.28	No	NA
2022-01-03	2022-01-06	08:35	0.0	2.1	100.06	N-1	-0.01	100.05	No	NA
2022-01-10	2022-01-13	08:05	0.0	0.0	100.02	N-1	-0.01	100.01	No	NA
2022-01-16	2022-01-16	08:20	0.0	0.0	100.09	N-1	-0.01	100.08	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	07:30	0.1	0.0	100.48	N-2	-0.01	100.47	No	NA
2022-03-07	2022-03-07	12:35	0.1	0.0	101.46	N-3	pending	101.46[e]	No	NA
2022-03-14	2022-03-17	08:00	0.2	0.0	100.45	N-3	pending	100.45[e]	No	NA
2022-03-21	2022-03-22	09:00	1.2	0.0	100.49	N-2	-0.01	100.48	No	NA
2022-03-28	2022-03-28	08:30	0.1	0.0	100.44	N-3	pending	100.44[e]	No	NA
2022-04-04	2022-04-05	08:20	0.1	0.3	100.41	N-3	pending	100.41[e]	No	NA
2022-04-25	2022-04-25	07:45	0.0	0.0	100.43	N-3	pending	100.43[e]	No	NA
2022-05-02	2022-05-02	08:15	0.0	0.0	100.40	N-3	pending	100.40[e]	No	NA
2022-05-09	2022-05-09	08:15	0.0	0.0	100.41	N-3	pending	100.41[e]	No	NA
2022-05-16	2022-05-18	08:10	0.0	0.0	100.44	N-4	pending	100.44[e]	No	NA
2022-05-23	2022-05-23	08:20	0.2	1.4	100.41	N-3	pending	100.41[e]	No	NA
2022-05-30	2022-06-03	07:45	0.1	0.0	100.44	N-4	pending	100.44[e]	No	NA
2022-06-06	2022-06-06	08:00	0.0	0.0	100.44	N-4	pending	100.44[e]	No	NA
2022-06-13	2022-06-13	08:00	0.0	0.0	100.54	N-4	pending	100.54[e]	No	NA
2022-06-20	2022-06-20	12:30	0.0	0.0	100.39	N-3	pending	100.39[e]	No	NA
2022-06-27	2022-06-30	08:00	0.0	0.0	100.59	N-3	pending	100.59[e]	No	NA
2022-07-04	2022-07-08	08:05	0.0	0.0	100.61	N-3	pending	100.61[e]	No	NA
2022-07-11	2022-07-15	08:00	0.0	0.0	100.60	N-3	pending	100.60[e]	No	NA
2022-08-01	2022-08-01	08:15	0.0	0.0	100.73	N-3	pending	100.73[e]	No	NA
2022-08-08	2022-08-08	08:00	0.0	0.1	100.79	N-3	pending	100.79[e]	No	NA
2022-08-15	2022-08-15	08:35	0.1	0.1	100.79	N-3	pending	100.79[e]	No	NA
2022-08-22	2022-08-22	08:00	0.0	0.0	100.86	N-3	pending	100.86[e]	No	NA
2022-08-29	2022-08-29	08:35	0.0	0.0	100.80	N-3	pending	100.80[e]	No	NA
2022-09-06	2022-09-06	08:15	0.0	0.0	100.98	N-4	pending	100.98[e]	No	NA
2022-09-12	2022-09-12	08:20	0.0	0.0	100.85	N-4	pending	100.85[e]	No	NA
2022-09-19	2022-09-19	11:20	0.0	0.1	100.86	25142	pending	100.86[j]	No	NA
2022-09-26	2022-09-26	09:10	0.0	0.0	100.83	N-1	-0.01	100.82	No	NA
2022-10-03	2022-10-03	08:05	0.0	0.0	100.92	N-3	pending	100.92[e]	No	NA
2022-10-17	2022-10-17	08:20	0.0	0.0	101.02	N-3	pending	101.02[e]	No	NA
2022-10-17	2022-10-21	08:10	0.0	0.0	100.97	N-6	pending	100.97[e]	No	NA
2022-10-24	2022-10-26	08:20	0.0	0.0	100.93	N-3	pending	100.93[e]	No	NA
2022-10-24	2022-10-28	08:20	0.0	0.0	100.87	N-6	pending	100.87[e]	No	NA
2022-10-31	2022-10-31	08:10	0.0	0.0	100.92	N-3	pending	100.92[e]	No	NA
2022-10-31	2022-11-04	08:00	0.0	0.0	100.82	N-5	pending	100.82[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	OWDFMW07A									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WL SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	12/31/2021	13:40	0.0	0.0	101.19	N-1	-0.01	101.18	No	NA
2022-01-03	2022-01-06	11:30	0.0	2.0	100.83	N-1	-0.01	100.82	No	NA
2022-01-10	2022-01-13	11:20	1.7	1.5	100.89	N-1	-0.01	100.88	No	NA
2022-01-16	2022-01-20	07:55	0.0	0.0	100.83	N-2	-0.01	100.82	N0	NA
2022-01-24	2022-01-24	12:24	0.0	0.0	100.87	N-2	-0.01	100.86	No	NA
2022-01-31	2022-02-02	12:50	0.1	0.0	101.10	N-2	-0.01	101.09	No	NA
2022-02-07	2022-02-09	12:30	0.0	0.0	101.16	N-1	-0.01	101.15	No	NA
2022-02-14	2022-02-17	08:30	0.0	0.0	101.18	N-1	-0.01	101.17	No	NA
2022-02-21	2022-02-23	00:40	0.1	0.0	101.40	N-2	-0.01	101.39	No	NA
2022-02-28	2022-02-28	00:15	0.0	0.0	101.32	N-2	-0.01	101.31	No	NA
2022-03-07	2022-03-09	07:30	0.0	0.0	101.34	N-3	pending	101.34[e]	No	NA
2022-03-14	2022-03-16	08:30	0.1	0.0	101.35	N-3	pending	101.35[e]	No	NA
2022-03-21	2022-03-23	11:10	0.3	0.0	101.36	N-2	-0.01	101.35	No	NA
2022-03-28	2022-03-31	08:00	0.0	0.0	101.32	N-3	pending	101.32[e]	No	NA
2022-04-04	2022-04-07	07:50	0.0	0.0	101.32	N-3	pending	101.32[e]	No	NA
2022-04-25	2022-04-27	12:40	0.0	0.0	101.30	N-4	pending	101.30[e]	No	NA
2022-05-02	2022-05-05	08:45	0.0	0.0	101.27	N-3	pending	101.27[e]	No	NA
2022-05-09	2022-05-12	12:35	0.1	0.0	101.25	N-3	pending	101.25[e]	No	NA
2022-05-16	2022-05-19	11:33	0.0	0.0	101.31	N-4	pending	101.31[e]	No	NA
2022-05-23	2022-05-23	08:05	0.0	0.0	101.25	N-3	pending	101.25[e]	No	NA
2022-05-30	2022-06-02	08:00	0.1	0.0	101.32	N-4	pending	101.32[e]	No	NA
2022-06-06	2022-06-08	08:15	0.0	0.0	101.34	N-4	pending	101.34[e]	No	NA
2022-06-13	2022-06-16	08:00	0.0	0.0	101.35	N-4	pending	101.35[e]	No	NA
2022-06-20	2022-06-21	11:30	1.3	5.6	101.24	N-4	pending	101.24[e]	No	NA
2022-06-27	2022-07-01	09:07	0.0	0.0	101.42	N-3	pending	101.42[e]	No	NA
2022-07-04	2022-07-07	08:30	0.0	0.0	101.48	N-3	pending	101.48[e]	No	NA
2022-07-11	2022-07-13	08:00	0.0	0.0	101.52	N-3	pending	101.52[e]	No	NA
2022-08-01	2022-08-04	07:50	0.0	0.1	101.61	N-3	pending	101.61[e]	No	NA
2022-08-08	2022-08-11	08:30	0.0	0.0	101.65	N-3	pending	101.65[e]	No	NA
2022-08-15	2022-08-18	11:05	0.0	0.0	101.66	N-3	pending	101.66[e]	No	NA
2022-08-22	2022-08-23	08:00	0.0	0.0	101.76	N-3	pending	101.76[e]	No	NA
2022-08-29	2022-08-30	08:35	0.0	0.0	101.76	N-3	pending	101.76[e]	No	NA
2022-09-06	2022-09-08	08:50	0.0	0.2	101.80	N-4	pending	101.80[e]	No	NA
2022-09-12	2022-09-15	07:50	0.0	0.1	101.73	N-5	pending	101.73[e]	No	NA
2022-09-19	2022-09-20	09:15	0.0	0.0	101.80	25142	pending	101.80[j]	No	NA
2022-09-26	2022-09-29	08:00	0.0	0.0	101.82	N-4	pending	101.82[e]	No	NA
2022-10-03	2022-10-06	07:45	0.0	0.0	101.85	N-4	pending	101.85[e]	No	NA
2022-10-17	2022-10-17	08:00	0.0	0.0	101.79	N-6	pending	101.79[e]	No	NA
2022-10-17	2022-10-21	07:45	0.0	0.0	101.80	N-4	pending	101.80[e]	No	NA
2022-10-24	2022-10-24	07:45	0.2	0.0	101.82	N-3	pending	101.82[e]	No	NA
2022-10-24	2022-10-28	07:45	0.0	0.0	101.70	N-5	pending	101.70[e]	No	NA
2022-10-31	2022-10-31	08:25	0.0	0.0	101.81	N-4	pending	101.81[e]	No	NA
2022-10-31	2022-11-04	07:40	0.0	0.1	101.77	N-6	pending	101.77[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	OWDFMW08A									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WL SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	12/30/2021	14:50	6.2	19.8	115.31	N-1	-0.02	115.29	No	NA
2022-01-03	2022-01-06	08:45	0.0	0.0	115.16	N-1	-0.02	115.14	No	NA
2022-01-10	2022-01-13	08:30	0.0	0.0	115.13	N-2	-0.02	115.11	No	NA
2022-01-16	2022-01-16	08:10	0.0	0.0	114.97	N-2	-0.02	114.95	No	NA
2022-01-24	2022-01-24	08:35	0.0	0.0	115.01	N-2	-0.02	114.99	No	NA
2022-01-31	2022-02-02	08:15	0.4	0.3	115.30	N-1	-0.02	115.28	No	NA
2022-02-07	2022-02-09	08:00	0.0	0.0	115.41	N-1	-0.02	115.39	No	NA
2022-02-14	2022-02-16	08:45	0.0	0.0	115.38	N-1	-0.02	115.36	No	NA
2022-02-21	2022-02-23	08:00	0.1	0.0	115.43	N-2	-0.02	115.41	No	NA
2022-02-28	2022-02-28	07:30	0.1	0.0	115.44	N-2	-0.02	115.42	No	NA
2022-03-07	2022-03-07	08:00	0.1	0.0	115.46	N-3	pending	115.46[e]	No	NA
2022-03-14	2022-03-17	11:00	0.2	0.0	115.51	N-3	pending	115.51[e]	No	NA
2022-03-21	2022-03-24	12:00	0.3	0.0	115.49	N-3	pending	115.49[e]	No	NA
2022-03-28	2022-03-31	10:30	0.0	0.0	115.46	N-3	pending	115.46[e]	No	NA
2022-04-04	2022-04-07	10:10	0.0	0.0	115.32	N-3	pending	115.32[e]	No	NA
2022-04-25	2022-04-27	08:45	0.0	0.0	115.45	N-4	pending	115.45[e]	No	NA
2022-05-02	2022-05-05	12:00	0.0	0.0	115.40	N-3	pending	115.40[e]	No	NA
2022-05-09	2022-05-12	08:35	0.0	0.0	115.41	N-3	pending	115.41[e]	No	NA
2022-05-16	2022-05-19	08:20	0.0	0.0	115.43	N-4	pending	115.43[e]	No	NA
2022-05-23	2022-05-26	10:10	0.0	0.0	115.37	N-3	pending	115.37[e]	No	NA
2022-05-30	2022-06-02	10:20	0.1	0.0	115.44	N-4	pending	115.44[e]	No	NA
2022-06-06	2022-06-08	10:55	0.0	0.0	115.45	N-4	pending	115.45[e]	No	NA
2022-06-13	2022-06-16	10:37	0.0	0.0	115.48	N-4	pending	115.48[e]	No	NA
2022-06-20	2022-06-23	08:00	0.0	0.0	115.54	N-4	pending	115.54[e]	No	NA
2022-06-27	2022-07-01	11:55	0.0	0.1	115.59	N-3	pending	115.59[e]	No	NA
2022-07-04	2022-07-07	08:30	0.0	0.0	115.52	N-3	pending	115.52[e]	No	NA
2022-07-11	2022-07-13	10:45	0.1	0.0	115.63	N-3	pending	115.63[e]	No	NA
2022-08-01	2022-08-04	10:18	0.0	0.1	115.70	N-3	pending	115.70[e]	No	NA
2022-08-08	2022-08-11	11:45	0.0	0.0	115.79	N-3	pending	115.79[e]	No	NA
2022-08-15	2022-08-19	08:50	0.0	0.0	115.82	N-3	pending	115.82[e]	No	NA
2022-08-22	2022-08-23	10:15	0.0	0.1	115.88	N-3	pending	115.88[e]	No	NA
2022-08-29	2022-08-31	11:53	0.0	0.0	115.87	N-3	pending	115.87[e]	No	NA
2022-09-06	2022-09-08	11:43	0.3	0.8	115.94	N-4	pending	115.94[e]	No	NA
2022-09-12	2022-09-15	10:15	0.0	0.1	115.82	N-5	pending	115.82[e]	No	NA
2022-09-19	2022-09-22	12:40	0.0	0.1	115.94	25142	pending	115.94[j]	No	NA
2022-09-26	2022-09-29	11:48	0.0	0.0	115.95	N-4	pending	115.95[e]	No	NA
2022-10-03	2022-10-06	10:57	0.0	0.0	115.99	N-4	pending	115.99[e]	No	NA
2022-10-17	2022-10-17	11:00	0.0	0.0	115.94	N-6	pending	115.94[e]	No	NA
2022-10-17	2022-10-21	10:25	0.0	0.0	116.03	N-4	pending	116.03[e]	No	NA
2022-10-24	2022-10-24	10:25	0.0	0.0	115.97	N-3	pending	115.97[e]	No	NA
2022-10-24	2022-10-28	10:48	0.0	0.0	115.83	N-5	pending	115.83[e]	No	NA
2022-10-31	2022-10-31	10:45	0.0	0.0	115.94	N-4	pending	115.94[e]	No	NA
2022-10-31	2022-11-04	10:48	0.0	0.1	115.85	N-6	pending	115.85[e]	No	NA

Table B.2.3: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 4, 2022 (cont'd)

	Adit 3 Sump Headspace and Product Gauging						
WEEK	DATE	TIME	AMBIENT	HEADSPACE	DTW	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)
2021-12-13	2022-12-15	11:15	0.0	52.7	NM	NA	NA
2021-12-20	2022-12-20	13:00	0.3	41.2	NM	NA	NA
2021-12-27	2022-12-27	NC	NC	NC	NC	NC	NC
2022-01-03	2022-01-03	11:20	0.0	39.8	NM	NA	NA
2022-01-10	2022-01-11	11:50	0.0	7.4	NM	NA	NA
2022-01-16	2022-01-20	11:30	1.5	8.0	NM	NA	NA
2022-01-24	2022-01-24	10:45	0.2	23.9	NM	NA	NA
2022-01-31	2022-02-03	11:32	0.9	5.0	NM	NA	NA
2022-02-07	2022-02-10	11:55	0.0	5.1	NM	NA	NA
2022-02-14	2022-02-17	11:40	1.3	6.7	NM	NA	NA
2022-02-21	2022-02-22	11:10	0.8	5.2	NM	NA	NA
2022-02-28	2022-03-02	14:20	0.1	3.1	NM	NA	NA
2022-03-07	2022-03-08	11:45	0.0	0.0	NM	NA	NA
2022-03-14	2022-03-17	11:25	0.2	7.8	NM	NA	NA
2022-03-21	2022-03-24	11:04	0.5	8.1	NM	NA	NA
2022-03-28	2022-03-29	08:40	0.0	2.5	NM	NA	NA
2022-04-04	4/7/2022	08:50	0.8	3.0	NM	NA	NA
2022-04-25	4/28/2022	10:56	0.1	5.2	NM	NA	NA
2022-05-02	2022-05-05	09:10	0.5	0.6	NM	NA	NA
2022-05-09	2022-05-12	10:50	0.0	0.0	NM	NA	NA
2022-05-16	5/19/2022	10:45	0.0	0.0	NM	NA	NA
2022-05-23	2022-05-26	09:18	0.0	0.0	NM	NA	NA
2022-05-30	2022-06-02	09:01	0.0	0.0	NM	NA	NA
2022-06-06	6/9/2022	09:21	0.0	0.0	NM	NA	NA
2022-06-13	2022-06-16	10:26	0.0	0.0	NM	NA	NA
2022-06-20	2022-06-23	08:40	0.0	0.0	NM	NA	NA
2022-06-27	2022-07-01	11:31	0.0	0.0	NM	NA	NA
2022-07-04	2022-07-07	10:46	0.0	0.2	NM	NA	NA
2022-07-11	2022-07-13	10:24	0.0	0.0	NM	NA	NA
2022-08-01	2022-08-04	10:50	0.0	0.0	NM	NA	NA
2022-08-08	2022-08-11	15:17	0.0	0.0	NM	NA	NA
2022-08-15	2022-08-18	13:54	0.0	0.0	NM	NA	NA
2022-08-22	2022-08-25	13:14	0.0	0.0	NM	NA	NA
2022-08-29	2022-09-01	08:57	0.0	0.0	NM	NA	NA
2022-09-06	2022-09-08	10:38	0.1	0.1	NM	NA	NA
2022-09-12	2022-09-15	10:24	0.0	0.0	NM	NA	NA
2022-09-19	2022-09-22	11:09	0.1	0.1	NM	NA	NA
2022-09-26	2022-09-29	10:51	0.0	0.0	NM	NA	NA
2022-10-03	2022-10-05	13:25	0.2	7.9	NM	NA	NA
2022-10-17	2022-10-18	10:32	0.0	0.0	NM	NA	NA
2022-10-17	2022-10-20	10:51	0.0	0.0	NM	NA	NA
2022-10-24	2022-10-25	10:10	0.0	0.5	NM	NA	NA
2022-10-24	2022-10-27	09:56	0.0	0.5	NM	NA	NA
2022-10-31	2022-11-01	11:18	0.0	0.0	NM	NA	NA
2022-10-31	2022-11-03	09:54	0.0	0.0	NM	NA	NA

Notes:

*Well screen is submerged and does not span the water's surface, therefore free product will not be captured or observed.

Wells with submerged screens will have a one-time bailer sample collected to verfiy no free product at the waters surface.

1 - One-time bailer sample collected at OWDFMW01 on 1 Dec 21. No fuel product observed.

2- One-time bailer samples collected at RHMW12A and RHMW16 on 22 Dec 21. No fuel product observed.

Subsequent samples collected via low-flow method will be observed for free product during collection and will be noted.

**Westbay is a closed system and the sample port is not located at the water's surface, therefore free product will not be captured or observed.

Headspace is measured from Westbay wells for almost all cannister pulls. The highest reading measured for each sample is shown in this spreadsheet.

Samples collected from Westbay wells will be observed for free product during collection and will be noted.

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

ppmv = parts-per-million, volume

NA = Not applicable

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

NC = Not collected

NC1 = Not required in DOH Notice of Interest Letter of 24 Nov 21.

NC2 = PID was not functioning properly and no reading was obtained

NC3 = Westbay winch malfunctioned on August 3, 2022. No samples collected pending arrival of replacement winch.

NC-WL = Not collected while water level study underway in conjunction with the start up of Red Hill Shaft

[a]: Intial reading recorded; however, subsequent follow up reading was <10ppm

[b]: Depth to water measured with an oil/water interface probe

[c]: Headspace reading was 0.0 ppm and bailer sample had no observable free product. During product gauging sensor alarmed; however, presence of small insects at the water surface in RHMW01R possibly interfered with sensor giving false reading.

[d]: Depth to water measurements are corrected for water level meter calibrations and horizontal well displacement, see correction factor tables for corrections factors and corrected values per water level meter and well. Solinst N-1 and Solinst N-2 water level meters are calibrated by USGS, calibrations published in "Results from calibration of groundwater-level measuring tapes" letter dated January 24, 2020. Correction factors for Solinst N-3 and N-4 water level meters will be applied after tapes are calibrated by USGS. Horizontal displacement correction factors are applied to wells RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, and OWDFMW01. Horizontal displacement correction factors will be derived from the gyroscopic survey reports for RHMW01R, RHMW12A, RHMW16, RHMW17, RHMW19, OWDFMW04A, OWDFMW05A, OWDFMW07A, and OWDFMW08A and will be applied when available.

[e]: Solinst N-3 and N-4 not currently calibrated, awaiting calibration by the USGS. Once completed, tape corrections will be applied.

[f]: Detection signal (solid tone) from oil/water interface probe while product gauging at RHMW09. Headspace reading was 0.0 ppm and bailer sample had no observable free product, as shown in the associated fuel product gauging verification photos (Nov. 20 NOI FP Monitoring Photo_050922, PDF page 4).

[g]: Well entered into service after completion of well installation and development. First occurrence of NOI sampling

[h]: Runs 1-4 and 6 had consistent PID readings of 0.0 ppm. Run 5 had high reading (12ppm) on cannister 1 and when re-read all 4 cannisters on run 5 had consistent PID readings of 2.5 ppm

[i]: No observable product from oil/water interface probe or bailer water surface. Headspace VOCs = 0.0 ppm. Slight odor. Outside of bailer was slick and appeared “soapy”.

[j]: Rental oil/water interface probes used while government-owned oil/water interface probes and water level meters N-1, N-2, N-3, N-4, N-5, and N-6 undergo calibration by USGS. A correction factor was determined by comparing with a government-owned meter and rental meter field measurements, as seen in the DTW Correction Factors tab.

[k]: Headspace VOC reading 32.4 ppm. Initial measurement recorded, then PID re-zeroed in ambient air and subsequent reading still elevated. No odor detected.

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Appendix B.3 – Groundwater Parameters from May 10, 2021 through November 4, 2022

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Table B.3: Groundwater Parameters from May 10, 2021 through October 31, 2022

RHMW01R									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	5/12/2021	229.17	7.07	0.35	0.63	0.22	23.73	50.3	0.2
5/17/2021	5/19/2021	231.58	7.08	0.36	0.53	0.13	23.60	34.1	0.2
5/24/2021	5/24/2021	215.60	7.08	0.33	0.56	0.26	23.56	54.6	0.2
5/24/2021	5/26/2021	225.24	7.11	0.35	0.60	0.10	23.84	41.2	0.2
5/24/2021	5/28/2021	227.81	7.04	0.35	0.48	0.17	23.47	28.0	0.2
5/31/2021	5/31/2021	222.53	7.12	0.34	0.64	0.19	23.69	23.0	0.2
5/31/2021	6/2/2021	221.63	7.31	0.34	3.28	0.26	24.79	84.5	0.2
5/31/2021	6/4/2021	211.23	7.63	0.33	3.37	0.68	24.37	143.7	0.2
6/7/2021	6/7/2021	210.49	7.39	0.32	3.87	0.79	24.37	159.4	0.2
6/7/2021	6/9/2021	230.57	7.59	0.35	3.19	0.44	24.69	138.9	0.2
6/7/2021	6/11/2021	211.23	7.63	0.33	3.37	0.68	24.37	143.7	0.2
6/14/2021	6/17/2021	239.63	7.62	0.34	3.07	2.51	24.29	79.2	0.2
6/21/2021	6/24/2021	215.46	6.57	0.33	4.13	1.10	24.50	55.8	0.2
6/28/2021	6/30/2021	210.89	7.24	0.32	0.54	0.42	23.53	-15.5	0.2
7/5/2021	7/8/2021	241.63	6.55	0.38	8.42	1.72	25.77	150.5	0.2
7/12/2021	7/15/2021	254.72	6.61	0.39	3.42	1.10	25.87	100.1	0.2
7/19/2021	7/22/2021	260.50	7.69	0.40	2.66	0.62	25.30	99.2	0.2
7/26/2021	7/29/2021	218.87	6.86	0.34	3.40	2.12	25.09	101.2	0.2
8/2/2021	8/5/2021	263.63	7.61	0.41	2.86	1.58	23.83	64.0	0.2
8/9/2021	8/12/2021	229.79	7.28	0.35	3.14	0.32	24.49	28.4	0.2
8/16/2021	8/19/2021	267.06	7.63	0.41	3.24	4.05	24.28	65.5	0.2
8/23/2021	8/26/2021	221.20	7.17	0.34	3.06	0.18	24.43	75.7	0.2
8/30/2021	9/1/2021	284.74	7.39	0.44	3.32	1.45	24.35	33.1	0.2
9/6/2021	9/8/2021	257.57	7.54	0.40	4.02	0.20	24.28	4.0	0.2
9/13/2021	9/15/2021	244.48	6.67	0.38	3.23	0.25	24.77	18.5	0.2
9/20/2021	9/22/2021	226.63	7.35	0.35	3.86	0.12	24.85	105.4	0.2
9/27/2021	9/29/2021	278.61	6.56	0.43	3.16	1.01	24.14	56.1	0.2
10/4/2021	10/6/2021	292.52	7.26	0.45	5.70	3.97	24.72	-24.2	0.2
10/11/2021	10/13/2021	276.12	7.62	0.42	3.45	NM	23.65	54.2	0.2
10/18/2021	10/20/2021	280.92	7.11	0.43	3.13	0.41	23.96	60.6	0.2
10/25/2021	10/27/2021	285.76	7.32	0.44	3.60	0.68	23.62	51.1	0.2
11/1/2021	11/3/2021	268.42	7.33	0.41	4.15	0.68	24.40	62.4	0.2
11/8/2021	11/10/2021	273.28	7.26	0.43	3.97	1.13	29.51	58.2	0.2
11/15/2021	11/17/2021	250.34	7.44	0.39	3.43	0.62	23.39	23.4	0.2
11/22/2021	11/24/2021	257.55	7.45	0.40	3.34	0.27	23.23	-13.6	0.2
11/29/2021	12/1/2021	218.34	7.32	0.34	2.92	0.85	23.37	-11.1	0.2
12/6/2021	12/8/2021	214.11	7.57	0.33	3.37	1.37	23.28	11.3	0.2
12/13/2021	12/15/2021	210.43	7.16	0.32	2.83	0.12	23.36	-15.9	0.2
12/20/2021	12/20/2021	207.73	7.20	0.32	3.54	0.33	22.34	-28.4	0.2
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/27/2021	213.65	7.05	0.33	2.76	2.02	21.61	-16.5	0.2
1/3/2022	1/3/2022	208.81	7.40	0.32	3.22	0.18	20.8	-21.1	0.2
1/10/2022	1/10/2022	206.69	6.90	0.32	3.28	2.16	23.38	59.4	0.2
1/16/2022	1/17/2022	211.13	7.43	0.32	3.12	0.25	23.55	37.0	0.2
1/24/2022	1/24/2022	205.23	7.58	0.32	3.48	0.29	23.69	99.7	0.2
1/31/2022	2/3/2022	206.69	7.69	0.32	8.11	1.32	23.2	96.4	0.2
2/7/2022	2/10/2022	214.63	7.21	0.33	9.89	1.53	17.41	6.1	0.2
2/14/2022	2/16/2022	257.54	7.11	0.40	3.33	0.99	24.55	102.0	0.2
2/21/2022	2/23/2022	208.08	6.15	0.32	2.58	2.25	23.12	116.7	0.2
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/2/2022	197.28	6.93	0.3	1.82	0.21	23.48	6.1	0.15
3/7/2022	3/8/2022	176.43	6.95	0.27	2.52	0.31	23.83	14.8	0.13
3/14/2022	3/15/2022	199.81	7.12	0.31	4.36	0.41	24.36	-26.3	0.15
3/21/2022	3/22/2022	228.8	6.92	0.35	2.08	0.27	25.72	-24.2	0.17
3/28/2022	3/31/2022	190.53	6.92	0.29	2.86	0.85	24.36	-14.8	0.14
4/4/2022	4/5/2022	195.54	6.88	0.3	1.82	0.45	24.45	-28.9	0.14
4/25/2022	4/26/2022	196.52	6.95	0.30	3.15	0.00	24.90	5.1	0.15
5/2/2022	5/3/2022	195.39	6.98	0.30	1.98	0.38	23.69	-149.2	0.14
5/9/2022	5/10/2022	194.18	6.96	0.30	4.01	0.06	24.64	-121.2	0.14
5/16/2022	5/17/2022	193.44	7.04	0.30	3.05	0.21	24.15	-4.0	0.14
5/23/2022	5/24/2022	190.31	6.83	0.29	3.03	2.00	23.92	-133.3	0.14
5/30/2022	5/31/2022	197.90	6.92	0.30	2.88	0.51	23.74	-132.1	0.15
6/6/2022	6/7/2022	197.51	6.91	0.30	3.12	0.37	23.69	-13.9	0.15
6/13/2022	6/14/2022	190.58	6.89	0.29	3.54	1.39	24.26	-2.9	0.14
6/20/2022	6/21/2022	205.21	6.89	0.32	2.38	0.64	24.15	-130.0	0.15
6/27/2022	6/29/2022	192.93	6.83	0.30	3.35	4.97	24.22	-180.6	0.14
7/4/2022	7/6/2022	199.58	7.24	0.31	3.54	2.29	23.98	-165.3	0.15
7/11/2022	7/12/2022	190.68	6.84	0.29	2.76	2.00	23.89	-29.4	0.14
8/1/2022	8/2/2022	204.92	6.68	0.32	3.25	0.00	24.12	0.4	0.15
8/8/2022	8/9/2022	NR	7.14	0.32	3.87	0.00	23.67	-6.7	0.15
8/15/2022	8/16/2022	195.55	7.11	0.30	2.95	2.39	24.07	11.3	0.14
8/22/2022	8/23/2022	192.62	7.28	0.30	2.39	0.00	23.94	-23.2	0.14
8/29/2022	8/30/2022	192.32	7.22	0.30	3.02	0.00	24.07	-167.2	0.14
9/6/2022	9/6/2022	192.22	7.39	0.30	2.91	0.04	24.33	-168.5	0.14
9/12/2022	9/13/2022	198.96	7.34	0.31	3.56	0.00	24.06	6.7	0.15
9/19/2022	9/20/2022	190.69	7.41	0.29	1.97	0.04	24.55	-22.8	0.14
9/26/2022	9/27/2022	199.50	7.17	0.31	2.39	0.60	24.15	-93.6	0.15
10/3/2022	10/4/2022	195.10	6.88	0.30	2.07	0.88	23.87	-92.8	0.14
10/17/2022	10/18/2022	182.26	7.14	0.28	2.49	0.68	23.82	-7.1	0.13
10/17/2022	10/20/2022	200.59	7.14	0.31	2.69	0.01	23.78	-83.5	0.15
10/24/2022	10/25/2022	224.20	6.99	0.34	4.60	0.00	24.13	-55.4	0.17
10/24/2022	10/27/2022	215.88	7.09	0.33	2.90	0.47	24.44	-44.1	0.16
10/31/2022	11/1/2022	179.43	6.71	0.28	3.04	0.33	23.73	22.4	0.13
10/31/2022	11/3/2022	NR	7.31	0.29	2.85	0.36	23.55	-4.2	0.14

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW02									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	5/13/2021	318.43	6.62	0.49	0.64	0.38	23.69	1.4	0.2
5/17/2021	5/20/2021	334.76	6.56	0.51	0.45	0.41	23.90	12.9	0.3
5/24/2021	5/24/2021	318.25	6.59	0.49	0.41	0.35	23.97	1.3	0.2
5/24/2021	5/26/2021	330.01	6.62	0.51	0.41	0.30	23.99	-0.4	0.2
5/24/2021	5/28/2021	328.43	6.60	0.51	0.43	0.22	23.96	-1.2	0.2
5/31/2021	5/31/2021	323.17	6.67	0.50	0.38	0.16	28.96	-12.0	0.2
5/31/2021	6/2/2021	292.40	6.99	0.45	3.45	1.24	24.41	30.7	0.2
5/31/2021	6/4/2021	295.75	6.98	0.46	3.02	0.81	24.05	-9.1	0.2
6/7/2021	6/7/2021	295.66	6.83	0.45	2.91	1.13	24.23	-5.9	0.2
6/7/2021	6/9/2021	313.63	6.88	0.48	2.86	0.59	24.26	-9.4	0.2
6/7/2021	6/11/2021	328.78	6.91	0.51	8.85	1.86	24.19	-45.1	0.2
6/14/2021	6/17/2021	271.37	7.08	0.45	2.82	1.71	24.24	-10.6	0.2
6/21/2021	6/24/2021	306.12	6.82	0.47	3.44	2.75	24.53	2.2	0.2
6/28/2021	6/30/2021	318.11	6.74	0.49	0.38	0.64	23.77	-7.9	0.2
7/5/2021	7/8/2021	361.55	6.68	0.56	3.06	94.20	24.50	85.0	0.2
7/12/2021	7/15/2021	306.79	6.72	0.47	4.72	1.20	25.13	28.7	0.2
7/19/2021	7/22/2021	336.41	6.95	0.52	3.38	0.32	24.43	27.9	0.3
7/26/2021	7/29/2021	336.59	6.95	0.52	3.21	7.47	24.55	41.0	0.3
8/2/2021	8/5/2021	336.97	7.05	0.52	3.08	0.72	24.24	26.4	0.3
8/9/2021	8/12/2021	309.63	6.97	0.48	3.37	0.78	24.60	11.9	0.2
8/16/2021	8/19/2021	337.40	6.87	0.52	2.73	0.88	24.55	-3.2	0.3
8/23/2021	8/26/2021	308.56	7.11	0.47	3.01	0.88	24.71	22.8	0.2
8/30/2021	9/1/2021	346.16	6.73	0.53	2.95	1.37	24.45	-3.4	0.3
9/6/2021	9/8/2021	310.08	6.90	0.48	2.62	2.66	24.53	-10.8	0.2
9/13/2021	9/15/2021	324.26	6.72	0.50	2.79	1.01	24.38	-5.1	0.2
9/20/2021	9/22/2021	308.97	6.98	0.48	2.94	3.32	24.60	51.9	0.2
9/27/2021	9/29/2021	298.98	6.82	0.46	2.17	5.06	24.50	-2.4	0.2
10/4/2021	10/6/2021	317.31	6.71	0.49	2.89	2.92	24.58	-14.7	0.2
10/11/2021	10/13/2021	332.25	6.62	0.51	3.12	4.80	24.64	3.4	0.2
10/18/2021	10/20/2021	315.87	6.73	0.49	3.27	1.11	24.61	8.7	0.2
10/25/2021	10/27/2021	308.07	6.67	0.47	3.86	1.06	23.77	37.3	0.2
11/1/2021	11/3/2021	321.50	6.89	0.50	3.31	0.51	24.85	18.2	0.2
11/8/2021	11/10/2021	332.45	6.78	0.51	3.12	2.72	24.22	16.3	0.2
11/15/2021	11/17/2021	287.61	6.83	0.44	2.69	1.78	24.00	-0.8	0.2
11/22/2021	11/24/2021	282.98	6.82	0.44	3.02	0.38	23.88	18.7	0.2
11/29/2021	12/1/2021	295.86	6.85	0.46	3.48	0.99	24.20	-10.7	0.2
12/6/2021	12/8/2021	294.21	6.85	0.45	4.33	1.57	23.51	13.4	0.2
12/13/2021	12/15/2021	287.15	6.74	0.44	2.70	1.34	23.59	1.1	0.2
12/20/2021	12/20/2021	278.63	6.79	0.43	3.14	1.48	22.82	-9.1	0.2
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/27/2021	282.17	6.63	0.43	2.83	1.05	22.32	-15.6	0.2
1/3/2022	1/3/2022	279.10	6.93	0.43	3.11	0.85	20.97	-27.9	0.2
1/10/2022	1/10/2022	262.97	6.90	0.40	3.17	0.93	23.78	28.4	0.2
1/16/2022	1/17/2022	272.92	6.80	0.42	3.40	1.14	24.06	19.7	0.2
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/2/2022	325.80	6.63	0.50	2.17	10.33	23.85	-65.2	0.24
3/7/2022	3/8/2022	263.94	6.60	0.41	3.05	0.65	24.05	-46.7	0.20
3/14/2022	3/15/2022	315.84	6.23	0.49	3.78	0.09	23.98	-85.2	0.24
3/21/2022	3/22/2022	302.14	6.61	0.46	3.36	2.06	24.80	-46.7	0.23
3/28/2022	3/31/2022	263.84	6.57	0.41	3.23	6.82	24.60	-10.4	0.30
4/4/2022	4/5/2022	265.39	6.52	0.41	1.48	6.11	24.31	-39.9	0.20
4/25/2022	4/26/2022	265.93	6.59	0.41	3.67	20.13	24.69	-48.2	0.20
5/2/2022	5/3/2022	320.44	6.74	0.49	2.58	0.55	24.14	-198.0	0.24
5/9/2022	5/10/2022	260.60	6.55	0.40	5.46	2.73	24.25	-123.5	0.19
5/16/2022	5/17/2022	298.42	6.74	0.46	5.91	2.18	24.83	-10.5	0.22
5/23/2022	5/24/2022	278.18	6.68	0.43	2.39	1.85	24.18	-169.2	0.21
5/30/2022	5/31/2022	269.96	6.73	0.42	3.61	3.20	24.45	-131.9	0.20
6/6/2022	6/7/2022	256.44	6.79	0.39	2.75	23.44	24.23	-11.3	0.19
6/13/2022	6/14/2022	310.49	6.68	0.48	3.25	4.53	24.93	-11.5	0.23
6/20/2022	6/21/2022	313.92	6.72	0.48	2.81	2.33	24.36	-145.4	0.24
6/27/2022	6/29/2022	268.67	6.58	0.41	7.56	1.17	25.14	-136.9	0.20
7/4/2022	7/6/2022	283.13	6.80	0.44	2.11	6.63	24.24	-152.5	0.21
7/11/2022	7/12/2022	309.30	6.51	0.48	1.98	3.89	24.34	-11.0	0.23
8/1/2022	8/2/2022	306.85	6.86	0.47	2.91	0.00	24.79	-48.2	0.23
8/8/2022	8/9/2022	299.23	6.75	0.46	4.34	0.00	24.37	-33.7	0.22
8/15/2022	8/16/2022	284.68	6.59	0.44	2.29	5.43	24.67	-120.1	0.21
8/22/2022	8/23/2022	288.60	6.86	0.44	2.47	0.00	24.50	-65.5	0.22
8/29/2022	8/30/2022	280.88	6.81	0.43	3.25	0.00	24.78	-200.3	0.21
9/6/2022	9/6/2022	330.10	6.95	0.51	3.73	0.00	24.42	-259.2	0.25
9/12/2022	9/13/2022	293.17	7.01	0.45	2.73	1.35	24.80	-71.7	0.22
9/19/2022	9/20/2022	283.86	7.05	0.44	1.91	0.62	24.65	-60.1	0.21
9/26/2022	9/27/2022	296.59	6.71	0.46	1.75	7.04	24.89	-176.4	0.22
10/3/2022	10/4/2022	287.64	6.55	0.44	1.76	2.53	24.58	-200.8	0.21
10/17/2022	10/18/2022	269.67	6.71	0.41	1.93	0.57	24.11	-30.3	0.20
10/17/2022	10/20/2022	289.41	6.80	0.45	2.74	1.68	24.22	-101.4	0.22
10/24/2022	10/25/2022	331.67	6.75	0.51	3.37	0.19	25.01	-109.8	0.25
10/24/2022	10/27/2022	269.16	6.75	0.41	3.70	3.69	25.14	30.9	0.20
10/31/2022	11/1/2022	256.30	6.62	0.39	1.94	2.55	24.70	-33.3	0.19
10/31/2022	11/3/2022	NR	6.93	0.42	1.86	2.10	24.48	-63.0	0.21

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW03									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	5/13/2021	507.71	6.61	0.78	1.53	0.53	26.71	38.1	0.4
5/17/2021	5/20/2021	513.51	6.82	0.79	1.26	12.20	26.84	111.0	0.4
5/24/2021	5/25/2021	488.85	7.09	0.75	1.34	1.28	26.55	186.3	0.4
5/24/2021	5/26/2021	504.25	6.82	0.78	1.35	1.31	26.37	170.8	0.4
5/24/2021	5/28/2021	512.66	6.84	0.79	1.60	0.47	26.32	168.5	0.4
5/31/2021	5/31/2021	507.02	6.90	0.78	1.44	11.51	26.32	154.4	0.4
5/31/2021	6/2/2021	487.16	6.92	0.73	3.96	0.86	25.73	157.2	0.4
5/31/2021	6/4/2021	488.87	7.00	0.75	1.86	5.80	25.61	141.4	0.4
6/7/2021	6/7/2021	490.05	7.11	0.75	3.34	8.64	24.95	228.2	0.4
6/7/2021	6/9/2021	490.32	6.97	0.75	2.42	6.59	25.32	72.9	0.4
6/7/2021	6/11/2021	489.13	6.96	0.75	2.89	147.00	25.37	88.2	0.4
6/14/2021	6/17/2021	481.98	6.91	0.74	3.05	1.84	25.31	67.6	0.4
6/21/2021	6/24/2021	499.90	6.92	0.77	2.77	4.51	25.73	0.5	0.4
6/28/2021	6/30/2021	497.36	6.97	0.76	1.15	0.50	26.54	15.3	0.4
7/5/2021	7/8/2021	482.73	6.95	0.74	3.07	4.04	25.73	135.5	0.4
7/12/2021	7/15/2021	486.81	6.81	0.75	3.33	2.48	25.77	35.2	0.4
7/19/2021	7/22/2021	496.23	6.99	0.76	3.68	1.13	25.56	45.4	0.4
7/26/2021	7/29/2021	493.73	7.01	0.76	3.85	13.59	25.76	74.2	0.4
8/2/2021	8/5/2021	492.70	6.99	0.76	8.28	5.67	25.59	-22.4	0.4
8/9/2021	8/12/2021	502.27	6.94	0.77	3.09	5.31	26.05	-13.0	0.4
8/16/2021	8/19/2021	502.19	6.94	0.77	2.80	28.60	25.87	19.4	0.4
8/23/2021	8/26/2021	499.34	0.72	0.77	2.16	0.15	25.62	7.2	0.4
8/30/2021	9/1/2021	515.97	6.85	0.79	2.10	6.97	25.06	-54.0	0.4
9/6/2021	9/8/2021	499.56	6.88	0.77	2.53	4.83	25.86	54.3	0.4
9/13/2021	9/15/2021	515.60	6.79	0.79	2.74	10.00	25.64	-58.2	0.4
9/20/2021	9/22/2021	495.04	6.73	0.76	2.47	10.73	25.65	10.6	0.4
9/27/2021	9/29/2021	502.66	6.57	0.77	2.51	11.70	25.71	-47.7	0.4
10/4/2021	10/6/2021	510.33	6.82	0.79	2.38	13.06	25.90	-40.5	0.4
10/11/2021	10/13/2021	491.65	6.02	0.76	3.23	2.25	25.77	112.4	0.4
10/18/2021	10/20/2021	502.67	6.63	0.77	2.72	1.69	25.66	60.7	0.4
10/25/2021	10/27/2021	506.58	6.84	0.78	2.84	3.06	24.90	65.3	0.4
11/1/2021	11/3/2021	501.84	6.84	0.77	3.32	0.36	25.58	137.5	0.4
11/8/2021	11/10/2021	509.81	6.86	0.78	4.48	1.13	26.29	111.0	0.4
11/15/2021	11/17/2021	476.74	6.83	0.73	2.57	2.63	25.33	-13.7	0.4
11/22/2021	11/24/2021	479.86	6.93	0.74	4.10	0.22	25.08	62.4	0.4
11/29/2021	12/1/2021	510.09	6.85	0.78	3.00	1.47	24.87	19.5	0.4
12/6/2021	12/8/2021	488.54	6.79	0.75	3.05	1.43	24.87	93.0	0.4
12/13/2021	12/15/2021	508.38	6.81	0.78	2.81	0.84	24.74	54.0	0.4
12/20/2021	12/20/2021	503.41	6.88	0.78	2.48	0.95	23.21	-46.3	0.4
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/27/2021	513.45	6.69	0.79	2.31	1.04	22.63	53.9	0.4
1/3/2022	1/3/2022	494.37	6.95	0.76	3.29	2.66	22.36	26.0	0.4
1/10/2022	1/10/2022	500.92	6.76	0.77	2.70	1.52	24.93	25.9	0.4
1/16/2022	1/17/2022	510.18	6.88	0.78	2.49	0.23	25.26	64.3	0.4
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/2/2022	490.38	6.63	0.75	3.13	0.22	25.02	60.4	0.31
3/7/2022	3/8/2022	488.33	6.65	0.75	2.28	0.22	23.26	40.2	0.37
3/14/2022	3/15/2022	557.29	6.66	0.86	2.44	0.08	25.52	22.3	0.43
3/21/2022	3/22/2022	552.81	6.69	0.85	4.14	1.92	25.34	115.1	0.42
3/28/2022	3/31/2022	484.73	6.65	0.75	3.12	6.37	24.86	227.3	0.37
4/4/2022	4/5/2022	484.73	6.68	0.75	2.30	1.83	24.81	112.1	0.37
4/25/2022	4/26/2022	489.48	6.65	0.75	2.76	0.00	25.43	101.7	0.37
5/2/2022	5/3/2022	492.05	6.69	0.76	3.09	0.40	25.62	-113.7	0.37
5/9/2022	5/10/2022	480.65	6.69	0.74	2.97	0.82	25.69	-2.0	0.36
5/16/2022	5/17/2022	479.69	6.75	0.74	5.86	8.35	25.64	76.3	0.36
5/23/2022	5/24/2022	502.92	6.67	0.77	2.27	8.43	25.97	-184.8	0.38
5/30/2022	5/31/2022	494.66	6.75	0.76	2.73	2.60	25.85	-23.3	0.38
6/6/2022	6/7/2022	490.26	6.77	0.75	2.39	0.00	25.78	64.2	0.37
6/13/2022	6/14/2022	480.64	6.50	0.74	1.21	25.77	25.77	118.3	0.36
6/20/2022	6/21/2022	517.00	6.70	0.80	3.42	7.28	25.50	-55.8	0.39
6/27/2022	6/29/2022	489.65	6.76	0.75	6.34	1.99	26.45	-177.3	0.37
7/4/2022	7/6/2022	506.28	6.86	0.78	2.70	2.52	25.88	-85.0	0.39
7/11/2022	7/12/2022	486.17	6.40	0.75	1.93	1.49	25.67	61.4	0.37
8/1/2022	8/2/2022	507.00	6.80	0.78	3.13	0.00	26.01	52.4	0.39
8/8/2022	8/9/2022	522.12	6.77	0.80	2.18	0.00	26.05	63.8	0.40
8/15/2022	8/16/2022	502.26	6.95	0.77	2.78	2.59	26.20	131.8	0.38
8/22/2022	8/23/2022	488.41	6.90	0.75	2.44	0.00	26.03	-87.3	0.37
8/29/2022	8/30/2022	486.03	6.83	0.75	2.64	0.00	26.30	13.0	0.37
9/6/2022	9/6/2022	486.64	6.94	0.75	3.10	0.00	26.17	-0.1	0.37
9/12/2022	9/13/2022	503.95	6.97	0.78	2.68	0.05	26.51	19.1	0.38
9/19/2022	9/20/2022	491.95	7.07	0.76	2.76	0.91	25.86	188.5	0.37
9/26/2022	9/27/2022	514.15	6.65	0.79	1.93	1.64	26.25	-101.1	0.39
10/3/2022	10/4/2022	496.71	6.62	0.76	2.57	1.38	26.39	40.4	0.38
10/17/2022	10/18/2022	464.02	6.73	0.71	1.45	0.79	26.13	-32.6	0.35
10/17/2022	10/20/2022	477.74	6.80	0.73	1.85	5.75	26.05	-105.7	0.36
10/24/2022	10/25/2022	574.94	6.80	0.88	3.71	0.00	26.59	67.0	0.44
10/24/2022	10/27/2022	465.00	6.85	0.72	2.62	4.43	26.33	1.4	0.35
10/31/2022	11/1/2022	458.97	6.74	0.71	2.31	0.19	26.08	164.8	0.35
10/31/2022	11/3/2022	NR	6.97	0.75	2.09	2.19	26.21	78.9	0.37

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW04									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	10/1/2021	281.54	7.29	0.43	8.67	1.60	23.18	198.0	0.2
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
1/3/2022	1/4/2022	233.90	6.28	0.36	9.55	0.05	19.23	182.2	0.2
1/10/2022	1/14/2022	251.27	7.41	0.39	9.61	0.79	17.19	106.6	0.2
1/16/2022	1/16/2022	248.38	7.85	0.38	8.85	0.82	20.48	96.8	0.2
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/1/2022	283.38	7.39	0.44	8.34	31.16	28.75	143.0	0.21
3/7/2022	3/7/2022	269.39	7.03	0.41	9.16	0.21	26.64	209.8	0.20
3/14/2022	3/14/2022	263.52	7.19	0.41	9.33	0.99	26.46	235.9	0.20
3/21/2022	3/23/2022	307.92	7.30	0.47	8.53	1.07	23.27	229.9	0.23
3/28/2022	3/30/2022	268.42	7.20	0.41	9.20	0.02	23.42	381.7	0.20
4/4/2022	4/6/2022	264.62	7.17	0.41	8.93	0.44	22.52	180.4	0.20
4/25/2022	4/25/2022	268.74	7.24	0.41	8.81	0.10	23.43	110.6	0.20
5/2/2022	5/4/2022	283.71	7.25	0.44	9.27	0.78	23.26	141.0	0.21
5/9/2022	5/11/2022	290.09	7.11	0.45	8.60	0.26	26.65	127.9	0.22
5/16/2022	5/16/2022	268.66	7.35	0.41	8.64	0.22	23.25	135.4	0.20
5/23/2022	5/23/2022	272.37	7.28	0.42	8.65	0.56	24.05	113.4	0.20
5/30/2022	6/3/2022	254.89	6.83	0.39	8.79	0.54	22.51	104.9	0.19
6/6/2022	6/8/2022	255.12	7.29	0.39	8.61	3.43	24.27	184.1	0.19
6/13/2022	6/15/2022	259.74	7.12	0.40	8.72	2.38	23.96	252.9	0.19
6/20/2022	6/22/2022	262.41	7.17	0.40	8.76	3.46	23.61	68.5	0.20
6/27/2022	6/30/2022	258.90	7.06	0.40	8.82	11.36	24.43	88.5	0.19
7/4/2022	7/8/2022	254.16	7.17	0.39	8.79	0.21	23.44	188.4	0.19
7/11/2022	7/14/2022	265.51	6.70	0.41	8.77	21.39	22.17	164.4	0.20
8/1/2022	8/3/2022	271.64	7.41	0.42	8.52	0.00	23.04	174.3	0.20
8/8/2022	8/10/2022	256.37	7.61	0.39	8.56	3.93	23.02	207.8	0.19
8/15/2022	8/17/2022	252.24	7.26	0.39	8.47	1.49	23.53	180.0	0.19
8/22/2022	8/24/2022	263.17	7.35	0.40	8.44	1.17	23.72	215.3	0.20
8/29/2022	8/31/2022	265.83	7.58	0.41	8.69	0.00	22.63	111.2	0.20
9/6/2022	9/9/2022	278.13	7.40	0.43	8.65	0.70	22.76	155.5	0.21
9/12/2022	9/14/2022	269.71	7.80	0.41	8.78	0.34	22.31	130.3	0.20
9/19/2022	9/23/2022	267.80	7.59	0.41	8.72	0.15	22.52	91.0	0.20
9/26/2022	9/28/2022	271.17	7.65	0.42	8.87	0.10	24.47	75.8	0.20
10/3/2022	10/5/2022	299.64	7.26	0.46	8.96	0.00	22.32	127.2	0.22
10/17/2022	10/17/2022	274.91	7.97	0.42	9.04	0.08	22.74	87.5	0.21
10/17/2022	10/19/2022	277.83	7.52	0.43	8.85	0.36	21.55	161.6	0.21
10/24/2022	10/24/2022	292.16	7.41	0.45	8.91	1.02	24.35	214.7	0.22
10/24/2022	10/26/2022	286.57	7.38	0.44	9.58	0.00	23.69	202.2	0.21
10/31/2022	10/31/2022	284.47	7.44	0.44	9.06	6.97	22.27	208.4	0.21
10/31/2022	11/2/2022	267.59	7.67	0.41	9.11	0.65	21.89	209.2	0.20

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW05									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	9/29/2021	349.04	6.87	0.54	7.98	60.20	24.33	174.2	0.3
10/4/2021	10/6/2021	375.49	7.56	0.58	8.40	7.30	24.77	161.5	0.3
10/11/2021	10/13/2021	285.67	7.91	0.44	9.40	5.74	23.83	153.7	0.2
10/18/2021	10/20/2021	270.89	6.75	0.45	8.54	0.79	23.87	165.1	0.2
10/25/2021	10/27/2021	283.22	7.25	0.44	8.41	5.70	23.62	147.2	0.2
11/1/2021	11/3/2021	276.87	7.14	0.43	8.29	1.16	24.33	186.1	0.2
11/8/2021	11/10/2021	410.48	7.56	0.63	8.34	1.27	24.42	180.2	0.3
11/15/2021	11/17/2021	292.55	7.32	0.45	7.83	16.24	23.57	145.0	0.2
11/22/2021	11/24/2021	308.75	7.58	0.48	8.29	1.89	23.36	133.4	0.2
11/29/2021	12/1/2021	458.63	7.48	0.71	8.45	1.43	23.57	112.2	0.3
12/6/2021	12/8/2021	385.22	7.88	0.59	8.70	4.78	23.13	147.6	0.3
12/13/2021	12/15/2021	381.54	7.73	0.58	7.74	0.24	24.56	132.2	0.3
12/20/2021	12/20/2021	381.25	7.43	0.59	8.74	0.28	22.76	110.2	0.3
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/27/2021	434.54	7.32	0.67	8.70	12.50	21.85	127.1	0.3
1/3/2022	1/3/2022	381.59	7.83	0.59	8.53	0.39	21.07	127.4	0.3
1/10/2022	1/10/2022	475.53	7.13	0.73	9.12	143.00	23.22	76.0	0.4
1/16/2022	1/17/2022	481.48	7.94	0.74	8.42	0.84	23.61	171.8	0.4
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/2/2022	316.23	7.62	0.49	10.92	0.51	23.65	167.9	0.21
3/7/2022	3/8/2022	393.35	7.46	0.61	8.40	0.32	23.75	162.7	0.30
3/14/2022	3/15/2022	438.82	7.29	0.68	9.25	0.02	24.31	218.2	0.33
3/21/2022	3/22/2022	467.33	7.04	0.72	8.27	3.34	24.04	241.6	0.35
3/28/2022	3/31/2022	316.43	7.48	0.49	9.60	2.36	23.61	310.0	0.24
4/4/2022	4/5/2022	356.59	7.46	0.55	8.60	1.18	24.25	195.9	0.27
4/25/2022	4/26/2022	366.82	7.60	0.56	8.84	0.00	24.34	152.6	0.28
5/2/2022	5/3/2022	321.26	7.04	0.49	8.22	0.83	23.71	80.2	0.24
5/9/2022	5/10/2022	357.02	7.43	0.55	8.71	1.97	24.53	130.6	0.27
5/16/2022	5/17/2022	333.18	7.42	0.51	9.00	0.18	24.28	206.8	0.25
5/23/2022	5/24/2022	329.85	7.32	0.51	8.21	1.03	24.06	147.4	0.25
5/30/2022	5/31/2022	274.70	7.33	0.42	8.79	35.28	23.42	-113.4	0.20
6/6/2022	6/7/2022	288.90	7.27	0.44	8.26	21.93	24.68	237.6	0.22
6/13/2022	6/14/2022	312.18	7.37	0.48	8.44	1.34	24.99	207.3	0.23
6/20/2022	6/21/2022	305.01	7.16	0.47	8.21	11.55	23.89	151.7	0.23
6/27/2022	6/29/2022	295.86	7.22	0.46	8.43	2.20	24.47	-0.4	0.22
7/4/2022	7/6/2022	313.82	7.29	0.48	8.35	7.56	23.93	100.7	0.23
7/11/2022	7/12/2022	328.43	6.91	0.51	8.99	12.77	23.60	249.7	0.25
8/1/2022	8/2/2022	301.21	7.56	0.46	8.00	1.98	24.20	202.3	0.23
8/8/2022	8/9/2022	308.43	7.42	0.47	8.13	0.00	24.06	284.0	0.23
8/15/2022	8/16/2022	271.49	7.52	0.42	8.86	9.45	24.42	164.6	0.20
8/22/2022	8/23/2022	282.54	7.55	0.43	8.20	0.00	24.21	175.3	0.21
8/29/2022	8/30/2022	275.79	7.35	0.42	8.05	0.00	23.90	76.4	0.21
9/6/2022	9/6/2022	259.82	7.36	0.40	8.05	0.00	24.00	112.2	0.19
9/12/2022	9/13/2022	236.51	7.55	0.36	8.16	0.15	23.65	109.4	0.18
9/19/2022	9/20/2022	220.58	7.78	0.34	7.97	0.17	23.82	45.8	0.16
9/26/2022	9/27/2022	231.79	7.63	0.36	7.97	5.80	23.40	85.6	0.17
10/3/2022	10/4/2022	230.70	7.05	0.35	8.02	0.62	23.44	148.1	0.17
10/17/2022	10/18/2022	194.07	7.27	0.30	8.11	0.48	22.92	194.5	0.14
10/17/2022	10/20/2022	226.91	7.48	0.35	8.04	9.82	23.34	240.9	0.17
10/24/2022	10/25/2022	253.05	7.03	0.39	4.60	10.56	22.90	170.0	0.19
10/24/2022	10/27/2022	209.94	7.67	0.32	8.04	3.96	23.86	243.8	0.16
10/31/2022	11/1/2022	201.30	7.14	0.31	7.90	6.08	23.23	177.8	0.15
10/31/2022	11/3/2022	206.39	7.47	0.32	8.05	2.93	23.33	210.2	0.15

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW06									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	10/1/2021	1113.92	7.25	1.72	8.19	1.64	25.40	217.0	0.9
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	12/13/2021	833.60	7.66	1.28	8.25	0.11	23.90	124.6	0.6
12/20/2021	12/21/2021	857.24	7.51	1.32	7.37	0.30	21.04	104.4	0.7
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/28/2021	862.35	7.06	1.33	7.45	0.12	20.77	145.5	0.7
1/3/2022	1/4/2022	826.31	7.31	1.27	7.35	0.28	21.90	101.6	0.6
1/10/2022	1/11/2022	835.91	7.83	1.29	7.69	0.75	21.73	134.8	0.6
1/16/2022	1/18/2022	854.54	7.91	1.31	7.24	0.31	24.94	144.2	0.7
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	2/28/2022	1122.81	6.98	1.73	9.32	0.58	14.31	139.2	0.9
3/7/2022	3/7/2022	1133.30	6.76	1.74	7.38	0.28	27.83	213.0	0.90
3/14/2022	3/16/2022	1251.00	6.86	1.92	8.17	0.35	29.41	200.6	0.99
3/21/2022	3/23/2022	1278.97	6.76	1.97	6.98	0.00	23.44	212.7	1.01
3/28/2022	3/30/2022	1126.76	6.85	1.75	7.09	0.20	28.37	216.0	0.90
4/4/2022	4/4/2022	1042.30	6.94	1.72	8.04	0.08	26.52	212.1	0.88
4/25/2022	4/25/2022	1088.66	6.96	1.67	7.44	0.00	24.56	92.2	0.86
5/2/2022	5/4/2022	1128.16	6.86	1.74	7.44	0.00	23.61	155.4	0.89
5/9/2022	5/11/2022	1151.85	6.89	1.77	7.83	0.10	24.06	195.9	0.91
5/16/2022	5/16/2022	1112.44	6.93	1.71	6.93	0.29	24.28	106.8	0.88
5/23/2022	5/23/2022	1096.60	6.94	1.69	7.10	0.68	25.34	107.0	0.86
5/30/2022	6/3/2022	1091.53	6.83	1.68	7.31	2.88	25.39	-15.5	0.86
6/6/2022	6/8/2022	1096.33	6.75	1.69	7.08	3.60	25.81	188.5	0.86
6/13/2022	6/15/2022	1108.77	7.00	1.70	6.95	2.99	25.38	193.3	0.87
6/20/2022	6/22/2022	1114.40	6.58	1.71	7.14	1.92	23.34	104.1	0.88
6/27/2022	6/30/2022	1106.25	6.69	1.70	7.56	6.39	25.88	155.6	0.87
7/4/2022	7/8/2022	1116.27	6.59	1.72	7.76	5.65	23.35	45.4	0.88
7/11/2022	7/14/2022	1141.12	6.92	1.76	7.38	2.98	26.33	170.1	0.90
8/1/2022	8/3/2022	1139.32	6.90	1.75	7.60	0.00	23.28	257.0	0.90
8/8/2022	8/10/2022	1094.72	7.07	1.68	7.08	5.64	25.96	264.5	0.86
8/15/2022	8/17/2022	1087.81	7.00	1.67	7.20	2.23	24.53	211.9	0.86
8/22/2022	8/24/2022	1119.39	6.90	1.72	7.21	0.00	24.16	228.1	0.88
8/29/2022	8/31/2022	1133.32	6.89	1.74	7.66	0.00	23.47	90.2	0.89
9/6/2022	9/9/2022	1177.30	6.85	1.81	7.02	0.32	23.38	186.2	0.93
9/12/2022	9/14/2022	1141.41	6.91	1.76	7.41	0.31	23.06	188.4	0.90
9/19/2022	9/23/2022	1132.64	7.06	1.74	7.39	0.30	24.90	105.4	0.89
9/26/2022	9/28/2022	1144.53	7.03	1.76	7.74	0.34	25.84	49.3	0.90
10/3/2022	10/6/2022	1269.47	6.92	1.95	7.37	1.26	24.51	130.4	1.01
10/17/2022	10/17/2022	1134.12	7.55	1.74	7.29	0.00	25.03	35.9	0.89
10/17/2022	10/19/2022	1136.67	6.91	1.75	6.94	0.23	24.30	162.3	0.90
10/24/2022	10/24/2022	1157.14	6.94	1.78	8.68	0.00	24.65	224.4	0.91
10/24/2022	10/26/2022	1166.26	6.76	1.79	7.50	0.00	23.97	204.4	0.92
10/31/2022	10/31/2022	1177.41	7.15	1.81	7.65	0.36	24.95	178.7	0.93
10/31/2022	11/2/2022	1103.92	7.23	1.70	7.46	3.95	25.00	138.0	0.87

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW08									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	9/30/2021	513.88	8.03	0.79	8.16	1.43	26.46	210.5	0.4
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	12/1/2021	466.14	8.07	0.72	6.62	0.62	24.99	44.4	0.4
12/6/2021	12/8/2021	450.45	7.65	0.69	5.66	0.96	22.63	99.1	0.3
12/13/2021	12/16/2021	460.91	7.10	0.71	3.81	2.34	21.37	140.2	0.3
12/20/2021	12/23/2021	464.96	8.23	0.72	3.92	4.83	27.96	185.3	0.4
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/28/2021	458.10	7.73	0.71	5.64	0.15	21.95	52.9	0.7
1/3/2022	1/4/2022	467.30	7.58	0.72	3.00	0.38	21.99	74.6	0.4
1/10/2022	1/11/2022	463.94	7.75	0.71	5.05	1.30	24.32	135.5	0.4
1/16/2022	1/18/2022	467.88	6.12	0.72	3.76	0.28	24.79	361.9	0.4
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	2/28/2022	450.78	8.01	0.71	6.34	1.61	15.07	78.2	0.4
3/7/2022	3/9/2022	467.88	7.61	0.72	4.67	0.84	25.07	168.3	0.35
3/14/2022	3/16/2022	507.78	7.49	0.78	4.98	0.08	26.70	207.6	0.39
3/21/2022	3/23/2022	517.66	7.70	0.80	4.16	0.00	24.39	211.9	0.39
3/28/2022	3/30/2022	453.12	7.89	0.70	5.19	0.25	24.96	186.3	0.34
4/4/2022	4/4/2022	447.28	7.58	0.70	5.01	0.02	23.76	200.6	0.34
4/25/2022	4/25/2022	437.69	7.77	0.67	6.31	0.67	24.21	95.9	0.33
5/2/2022	5/4/2022	457.07	7.86	0.70	4.84	2.34	23.83	-106.7	0.35
5/9/2022	5/11/2022	467.79	7.62	0.72	6.05	0.19	24.84	148.3	0.35
5/16/2022	5/16/2022	442.89	7.65	0.68	5.24	7.06	23.68	114.7	0.34
5/23/2022	5/23/2022	446.99	7.41	0.69	2.88	1.08	24.50	76.8	0.34
5/30/2022	6/3/2022	447.35	7.35	0.69	3.80	1.47	27.76	116.2	0.34
6/6/2022	6/8/2022	446.60	7.60	0.69	4.70	5.32	27.35	23.6	0.34
6/13/2022	6/15/2022	451.24	7.84	0.69	5.66	1.96	26.83	215.7	0.34
6/20/2022	6/22/2022	448.89	7.40	0.69	5.57	12.59	27.09	91.5	0.34
6/27/2022	6/30/2022	441.62	7.44	0.68	5.12	3.50	24.77	95.9	0.33
7/4/2022	7/8/2022	455.25	7.59	0.70	5.69	0.42	23.13	100.1	0.35
7/11/2022	7/14/2022	451.73	7.58	0.69	5.08	2.74	25.26	179.4	0.34
8/1/2022	8/3/2022	445.60	7.88	0.69	6.49	0.00	23.24	216.6	0.34
8/8/2022	8/10/2022	425.79	8.12	0.66	5.27	5.35	24.62	206.5	0.32
8/15/2022	8/17/2022	418.57	8.03	0.64	5.75	6.13	25.88	201.2	0.32
8/22/2022	8/24/2022	443.09	8.00	0.68	5.89	0.43	24.41	180.4	0.34
8/29/2022	8/31/2022	446.08	7.93	0.69	6.37	0.50	24.55	68.3	0.34
9/6/2022	9/9/2022	464.84	7.86	0.72	5.62	0.58	23.81	178.2	0.35
9/12/2022	9/14/2022	451.13	8.00	0.69	5.31	3.83	24.52	165.1	0.34
9/19/2022	9/23/2022	449.07	7.84	0.69	5.96	0.89	24.53	83.0	0.34
9/26/2022	9/28/2022	457.61	8.05	0.70	6.26	0.20	23.51	96.3	0.35
10/3/2022	10/5/2022	496.01	7.92	0.76	6.36	0.00	23.32	77.3	0.38
10/17/2022	10/17/2022	455.71	8.26	0.70	5.88	0.37	25.81	8.8	0.35
10/17/2022	10/19/2022	453.93	7.86	0.70	6.03	0.64	23.68	146.8	0.34
10/24/2022	10/24/2022	478.23	7.96	0.74	7.19	0.16	27.02	207.4	0.36
10/24/2022	10/26/2022	477.51	7.95	0.73	7.17	0.00	25.76	144.0	0.36
10/31/2022	10/31/2022	471.95	8.01	0.73	6.61	0.83	24.26	196.8	0.36
10/31/2022	11/2/2022	440.77	8.25	0.68	6.67	0.50	22.82	197.9	0.33

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW09									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	9/30/2021	244.07	7.89	0.38	8.24	1.62	26.86	155.6	0.2
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	12/16/2021	216.08	7.53	0.33	9.34	2.44	22.02	54.4	0.2
12/20/2021	12/24/2021	223.54	7.07	0.35	7.85	4.03	21.86	104.1	0.2
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	1/1/2022	223.64	6.91	0.34	8.73	2.26	20.31	115.7	0.2
1/3/2022	1/7/2022	217.49	7.78	0.34	8.75	0.95	21.11	79.0	0.2
1/10/2022	1/12/2022	215.34	7.75	0.33	9.26	1.05	19.55	80.9	0.2
1/16/2022	1/17/2022	228.58	8.68	0.35	8.52	0.64	24.79	99.0	0.2
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/3/2022	208.25	6.78	0.32	8.94	81.88	23.83	238.8	0.15
3/7/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
3/14/2022	3/16/2022	177.84	7.19	0.32	9.89	1.81	25.05	217.7	0.13
3/21/2022	3/21/2022	216.83	7.79	0.33	9.44	0.51	26.76	190.6	0.16
3/28/2022	3/28/2022	207.90	7.45	0.32	8.70	0.11	24.22	176.2	0.15
4/4/2022	4/8/2022	212.31	7.47	0.33	8.54	0.66	25.32	198.3	0.16
4/25/2022	4/28/2022	202.87	7.27	0.31	8.16	0.00	24.51	213.7	0.15
5/2/2022	5/2/2022	205.97	7.19	0.32	8.44	6.49	23.15	72.8	0.15
5/9/2022	5/9/2022	209.18	7.43	0.32	8.49	2.11	23.84	286.4	0.15
5/16/2022	5/18/2022	210.44	7.30	0.32	9.55	0.04	24.68	215.5	0.16
5/23/2022	5/25/2022	203.54	7.35	0.31	8.26	1.43	26.02	76.7	0.15
5/30/2022	6/1/2022	233.79	7.17	0.36	8.70	1.60	24.92	184.3	0.17
6/6/2022	6/6/2022	222.33	7.09	0.34	8.22	27.08	25.28	-120.0	0.16
6/13/2022	6/13/2022	208.59	7.49	0.32	8.15	1.34	28.99	174.7	0.15
6/20/2022	6/20/2022	202.60	6.70	0.31	8.43	2.67	22.97	130.1	0.15
6/27/2022	6/28/2022	211.91	7.31	0.33	8.70	0.01	22.93	196.7	0.16
7/4/2022	7/5/2022	227.30	7.09	0.35	8.95	2.16	23.50	125.9	0.17
7/11/2022	7/11/2022	210.26	6.85	0.32	8.57	4.41	23.85	193.2	0.16
8/1/2022	8/1/2022	219.59	7.32	0.34	9.13	0.00	24.41	182.6	0.16
8/8/2022	8/8/2022	211.61	7.33	0.33	8.43	0.00	22.63	258.0	0.16
8/15/2022	8/15/2022	204.27	7.27	0.31	8.39	3.60	23.17	178.9	0.15
8/22/2022	8/22/2022	213.18	7.61	0.33	8.84	0.00	24.79	192.4	0.16
8/29/2022	8/29/2022	205.39	7.66	0.32	8.39	0.79	23.52	49.2	0.15
9/6/2022	9/7/2022	209.80	7.59	0.32	9.00	0.00	22.65	193.3	0.16
9/12/2022	9/12/2022	211.50	7.25	0.33	8.59	0.38	22.65	163.5	0.16
9/19/2022	9/19/2022	216.19	7.51	0.33	8.43	3.49	23.65	154.9	0.16
9/26/2022	9/26/2022	209.97	7.44	0.32	8.50	0.50	23.41	92.0	0.16
10/3/2022	10/3/2022	224.37	7.88	0.35	8.68	0.59	22.49	91.1	0.17
10/17/2022	10/17/2022	215.79	7.55	0.33	7.14	0.02	23.59	-4.5	0.16
10/17/2022	10/19/2022	217.37	7.33	0.33	8.73	0.95	22.20	226.9	0.16
10/24/2022	10/24/2022	228.41	7.78	0.35	8.76	0.21	22.54	159.6	0.17
10/24/2022	10/26/2022	201.06	7.42	0.31	8.91	2.30	24.82	272.0	0.15
10/31/2022	10/31/2022	197.11	7.13	0.30	8.61	2.58	22.64	105.9	0.15
10/31/2022	11/2/2022	196.84	7.32	0.30	8.43	6.13	23.07	91.8	0.15

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW11 - Zone 5									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	12/16/2021	281.68	6.75	0.43	0.23	0.23	23.77	44.4	0.20
12/20/2021	12/23/2021	279.80	7.94	0.43	1.45	0.17	24.29	-12.8	0.20
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/30/2021	272.91	8.11	0.42	0.27	0.08	22.86	61.4	0.20
1/3/2022	1/6/2022	268.32	8.06	0.41	0.44	0.14	23.01	-32.4	0.20
1/10/2022	1/13/2022	253.68	7.70	0.39	0.54	0.18	27.56	99.1	0.20
1/16/2022	1/20/2022	254.89	7.96	0.39	0.51	0.33	23.08	-7.8	0.20
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/3/2022	260.54	7.88	0.40	2.91	9.16	24.30	-37.8	0.20
3/7/2022	3/9/2022	365.58	7.69	0.56	0.30	10.46	25.81	-76.8	0.27
3/14/2022	3/17/2022	305.35	7.69	0.47	0.14	3329.54	25.04	-89.7	0.23
3/21/2022	3/22/2022	276.49	7.80	0.43	0.23	3.86	24.55	-80.9	0.20
3/28/2022	3/31/2022	288.92	7.98	0.44	1.15	0.08	27.47	-78.5	0.22
4/4/2022	4/7/2022	283.76	7.94	0.44	0.79	0.19	24.10	-31.4	0.21
4/25/2022	4/28/2022	264.41	7.93	0.41	1.13	0.44	25.45	13.4	0.20
5/2/2022	5/5/2022	259.56	7.95	0.40	0.70	1.70	26.49	25.2	0.19
5/9/2022	5/11/2022	263.71	7.94	0.40	1.30	0.55	26.62	14.9	0.20
5/16/2022	5/19/2022	268.31	7.87	0.41	0.57	0.78	25.05	21.4	0.20
5/23/2022	5/26/2022	270.22	7.82	0.42	0.91	11.97	25.40	-44.2	0.20
5/30/2022	6/2/2022	273.70	7.89	0.42	1.86	0.20	27.54	1.3	0.20
6/6/2022	6/9/2022	273.05	7.69	0.42	0.93	0.50	25.51	17.1	0.20
6/13/2022	6/16/2022	274.88	7.85	0.42	1.20	0.45	24.70	8.1	0.21
6/20/2022	6/23/2022	265.34	7.82	0.41	1.79	0.42	26.08	60.9	0.20
6/27/2022	7/1/2022	273.07	7.88	0.42	0.99	0.79	27.59	31.0	0.20
7/4/2022	7/7/2022	274.70	7.90	0.42	0.74	0.23	27.41	24.1	0.20
7/11/2022	7/13/2022	269.70	7.90	0.41	1.38	0.72	25.97	19.9	0.20
8/1/2022	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
8/8/2022	8/12/2022	266.54	8.07	0.41	0.90	0.97	26.04	-0.7	0.20
8/15/2022	8/17/2022	309.31	7.92	0.48	0.75	0.21	25.71	-30.4	0.23
8/22/2022	8/22/2022	286.87	7.95	0.44	0.93	0.49	25.76	96.3	0.21
8/29/2022	8/29/2022	267.85	8.00	0.41	0.85	0.79	26.54	-150.4	0.20
9/6/2022	9/7/2022	277.92	7.95	0.43	0.88	1.12	25.91	17.6	0.21
9/12/2022	9/13/2022	284.37	7.74	0.44	1.05	1.43	27.88	15.4	0.21
9/19/2022	9/20/2022	295.10	7.95	0.45	0.70	0.65	26.03	-1.6	0.22
9/26/2022	9/27/2022	285.90	7.91	0.44	1.18	0.68	26.45	-50.4	0.21
10/3/2022	10/3/2022	272.13	7.94	0.42	1.07	1.30	25.67	-60.3	0.20
10/17/2022	10/17/2022	317.41	7.85	0.49	0.99	1.62	26.01	1.3	0.24
10/17/2022	10/21/2022	254.73	7.98	0.39	0.84	1.65	29.65	187.3	0.19
10/24/2022	10/24/2022	259.53	7.98	0.40	2.07	1.45	26.99	224.6	0.19
10/24/2022	10/28/2022	252.96	8.04	0.39	1.61	0.07	23.47	76.8	0.19
10/31/2022	11/2/2022	295.31	7.86	0.45	1.42	1.00	26.23	-40.7	0.22
10/31/2022	11/4/2022	282.48	7.95	0.43	1.12	1.18	25.73	-4.9	0.21

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW12A									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	10/4/2021	2510.08	11.97	3.86	7.92	0.39	27.73	117.1	2.1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	12/14/2021	242.26	8.80	0.37	5.31	4.71	22.93	50.3	0.2
12/20/2021	12/22/2021	245.02	8.80	0.38	4.29	2.95	22.54	43.0	0.2
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/29/2021	242.18	8.76	0.37	5.53	7.03	22.16	57.3	0.2
1/3/2022	1/5/2022	241.17	8.90	0.38	4.51	0.89	20.82	50.9	0.2
1/10/2022	1/12/2022	264.48	8.47	0.41	2.70	0.49	25.21	323.7	0.2
1/16/2022	1/17/2022	241.14	8.77	0.37	4.31	0.83	19.64	50.2	0.2
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/1/2022	241.67	8.78	0.37	5.19	3.87	24.21	223.9	0.2
3/7/2022	3/8/2022	260.95	8.30	0.40	3.18	0.91	25.11	113.1	0.19
3/14/2022	3/15/2022	256.26	8.04	0.39	3.60	0.36	25.03	151.6	0.19
3/21/2022	3/22/2022	240.13	8.29	0.37	3.63	0.69	24.83	161.1	0.18
3/28/2022	3/29/2022	240.79	7.87	0.37	3.61	0.48	25.68	145.9	0.18
4/4/2022	4/4/2022	261.17	8.13	0.40	3.80	1.02	24.92	159.7	0.20
4/25/2022	4/26/2022	234.83	8.26	0.36	4.25	0.61	25.61	186.5	0.17
5/2/2022	5/3/2022	239.26	8.10	0.37	4.18	0.00	25.07	203.2	0.18
5/9/2022	5/10/2022	227.78	8.43	0.35	4.96	0.29	24.12	151.5	0.17
5/16/2022	5/17/2022	231.70	8.22	0.36	5.03	0.01	24.17	192.0	0.17
5/23/2022	5/24/2022	233.73	8.60	0.36	4.83	0.14	26.47	83.1	0.17
5/30/2022	6/1/2022	239.77	8.23	0.37	4.41	0.00	25.79	84.2	0.18
6/6/2022	6/7/2022	228.08	8.54	0.35	5.08	0.00	24.70	125.2	0.17
6/13/2022	6/14/2022	229.66	8.47	0.35	5.06	0.00	24.44	174.0	0.17
6/20/2022	6/21/2022	248.13	9.30	0.38	5.24	0.00	25.19	159.5	0.18
6/27/2022	6/29/2022	227.95	8.38	0.35	5.45	0.00	25.22	177.4	0.17
7/4/2022	7/5/2022	226.74	8.55	0.35	5.24	0.21	24.61	188.3	0.17
7/11/2022	7/11/2022	227.83	8.49	0.35	5.28	0.14	24.91	180.6	0.17
8/1/2022	8/2/2022	233.58	8.48	0.36	5.25	0.07	24.85	177.8	0.17
8/8/2022	8/9/2022	222.57	8.45	0.34	5.44	0.00	24.96	183.9	0.17
8/15/2022	8/16/2022	226.83	8.24	0.35	5.55	0.00	24.85	211.2	0.17
8/22/2022	8/25/2022	220.59	8.42	0.34	5.80	0.00	26.73	199.3	0.16
8/29/2022	9/1/2022	219.82	8.34	0.34	5.96	0.00	25.71	203.7	0.16
9/6/2022	9/7/2022	224.16	8.46	0.34	5.62	0.21	24.96	221.4	0.17
9/12/2022	9/13/2022	227.27	8.14	0.35	5.60	1.01	25.81	199.1	0.17
9/19/2022	9/22/2022	248.67	8.43	0.38	5.59	0.43	26.44	183.0	0.18
9/26/2022	9/27/2022	225.14	8.34	0.35	5.68	0.26	24.63	122.8	0.17
10/3/2022	10/4/2022	238.97	8.38	0.37	5.53	0.00	24.77	141.9	0.18
10/17/2022	10/18/2022	223.79	8.02	0.34	5.78	0.85	25.34	189.2	0.17
10/17/2022	10/20/2022	258.99	8.27	0.40	5.65	1.02	25.17	166.4	0.19
10/24/2022	10/24/2022	241.36	8.39	0.37	5.96	0.28	24.37	154.9	0.18
10/24/2022	10/27/2022	264.66	8.42	0.41	5.84	0.29	24.34	151.2	0.20
10/31/2022	11/1/2022	209.04	8.43	0.32	5.59	0.00	24.57	231.4	0.15
10/31/2022	11/3/2022	227.67	8.38	0.35	5.87	0.23	25.49	209.5	0.17

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW13 - Zone 5									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	12/15/2021	266.50	7.83	0.41	0.32	1.41	22.07	132.5	0.2
12/20/2021	12/22/2021	244.97	8.28	0.38	0.20	0.55	24.18	142.1	0.2
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/29/2021	239.61	8.09	0.37	0.39	0.40	23.01	182.4	0.2
1/3/2022	1/5/2022	239.92	8.28	0.37	0.82	1.25	24.76	266.0	0.2
1/10/2022	1/12/2022	241.68	8.14	0.37	0.76	1.19	24.50	115.0	0.2
1/16/2022	1/19/2022	237.00	8.19	0.36	0.61	2.01	20.13	64.4	0.2
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/2/2022	245.81	8.01	0.38	0.63	0.51	24.61	51.1	0.18
3/7/2022	3/10/2022	240.67	8.11	0.37	0.88	0.00	24.51	75.8	0.17
3/14/2022	3/16/2022	267.10	7.99	0.41	0.53	0.61	24.65	33.1	0.19
3/21/2022	3/23/2022	238.98	8.04	0.37	0.58	0.22	24.15	37.6	0.17
3/28/2022	3/30/2022	247.36	8.08	0.38	0.79	0.70	25.03	15.0	0.18
4/4/2022	4/6/2022	237.67	8.10	0.35	0.85	1.12	24.22	88.8	0.17
4/25/2022	4/27/2022	231.08	8.04	0.36	1.66	0.28	25.16	120.6	0.17
5/2/2022	5/4/2022	238.51	8.08	0.37	0.80	0.20	25.32	106.6	0.18
5/9/2022	5/12/2022	237.07	8.08	0.36	1.32	4.39	26.53	67.3	0.18
5/16/2022	5/18/2022	231.67	8.06	0.36	1.76	0.51	25.35	182.6	0.17
5/23/2022	5/25/2022	233.37	8.04	0.36	1.20	5.29	28.77	137.8	0.17
5/30/2022	6/1/2022	230.09	8.04	0.35	1.24	0.78	27.57	78.9	0.17
6/6/2022	6/10/2022	233.26	8.00	0.36	1.30	0.54	30.24	190.5	0.17
6/13/2022	6/15/2022	222.00	8.03	0.34	1.28	0.52	27.79	161.2	0.16
6/20/2022	6/22/2022	232.96	7.98	0.36	1.43	0.57	26.95	152.9	0.17
6/27/2022	6/30/2022	238.95	8.01	0.37	0.99	0.26	27.96	149.7	0.18
7/4/2022	7/6/2022	253.60	7.96	0.39	0.79	2.10	33.50	161.2	0.19
7/11/2022	7/12/2022	220.18	8.01	0.34	1.17	0.54	27.02	137.6	0.16
8/1/2022	8/3/2022	238.52	7.96	0.37	1.18	0.00	23.95	161.0	0.18
8/8/2022	8/13/2022	239.22	8.12	0.37	1.27	0.59	27.48	124.0	0.18
8/15/2022	8/18/2022	258.41	8.01	0.40	1.40	0.45	28.39	125.8	0.19
8/22/2022	8/24/2022	264.40	7.97	0.41	1.48	0.22	26.63	157.9	0.20
8/29/2022	8/31/2022	242.07	8.08	0.37	1.14	0.60	28.46	131.8	0.18
9/6/2022	9/9/2022	244.83	8.13	0.38	1.06	0.55	24.57	114.5	0.18
9/12/2022	9/14/2022	235.76	8.09	0.36	0.99	0.41	25.66	107.2	0.18
9/19/2022	9/21/2022	261.50	7.55	0.40	1.10	0.00	24.69	126.4	0.19
9/26/2022	9/28/2022	259.82	8.07	0.40	1.11	0.88	26.66	30.4	0.19
10/3/2022	10/6/2022	248.24	7.99	0.38	0.71	0.54	25.59	31.3	0.18
10/17/2022	10/19/2022	234.21	8.06	0.36	1.01	1.42	25.28	121.0	0.17
10/17/2022	10/21/2022	220.38	8.12	0.34	1.11	0.65	24.56	239.8	0.16
10/24/2022	10/26/2022	231.24	8.10	0.36	1.27	0.19	24.09	263.5	0.17
10/24/2022	10/28/2022	206.77	8.16	0.32	1.90	0.91	26.96	174.0	0.15
10/31/2022	10/31/2022	228.84	8.09	0.35	1.16	2.54	24.03	209.1	0.17
10/31/2022	11/4/2022	207.79	7.77	0.32	3.94	1.34	28.13	16.3	0.15

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW14 - Zone 3									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	12/13/2021	184.38	7.95	0.28	1.62	1.31	26.79	48.4	0.10
12/20/2021	12/20/2021	189.89	7.33	0.29	2.23	1.11	26.02	193.0	0.10
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/27/2021	184.52	7.96	0.28	1.70	0.12	26.22	119.2	0.10
1/3/2022	1/3/2022	188.96	7.95	0.29	1.70	2.77	23.42	61.5	0.10
1/10/2022	1/10/2022	174.26	8.05	0.27	1.59	0.40	25.85	147.8	0.10
1/16/2022	1/18/2022	169.52	7.81	0.26	0.59	0.36	26.69	60.8	0.10
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/1/2022	176.48	8.40	0.27	4.22	0.93	17.46	11.6	0.10
3/7/2022	3/8/2022	202.38	7.28	0.31	3.19	2.26	25.18	196.6	0.15
3/14/2022	3/15/2022	196.16	7.45	0.30	4.59	1.20	16.92	130.4	0.10
3/21/2022	3/22/2022	186.58	7.69	0.29	3.91	63.57	25.00	133.1	0.13
3/28/2022	3/29/2022	193.70	7.86	0.30	2.74	1.02	27.67	137.0	0.14
4/4/2022	4/5/2022	192.39	7.83	0.30	1.22	0.05	26.97	82.5	0.14
4/25/2022	4/26/2022	183.27	7.65	0.28	1.28	0.44	25.64	245.5	0.14
5/2/2022	5/3/2022	185.44	7.91	0.29	1.71	0.59	24.09	187.4	0.14
5/9/2022	5/10/2022	192.49	7.77	0.30	1.36	1.17	25.95	116.0	0.14
5/16/2022	5/17/2022	184.56	7.77	0.28	2.30	0.66	25.12	263.0	0.14
5/23/2022	5/24/2022	187.95	7.81	0.29	1.38	0.00	26.99	205.5	0.14
5/30/2022	5/31/2022	183.35	7.70	0.28	2.79	0.65	26.95	111.7	0.14
6/6/2022	6/7/2022	187.27	7.60	0.29	2.71	0.04	26.98	142.1	0.14
6/13/2022	6/14/2022	184.87	7.75	0.28	1.70	0.00	24.10	193.8	0.14
6/20/2022	6/21/2022	205.50	7.53	0.32	2.70	0.81	26.90	122.0	0.15
6/27/2022	6/29/2022	193.47	7.72	0.30	1.49	0.00	25.40	180.2	0.14
7/4/2022	7/5/2022	195.56	7.83	0.30	1.76	0.62	27.63	190.7	0.14
7/11/2022	7/14/2022	185.78	7.80	0.29	1.66	0.47	25.46	194.2	0.14
8/1/2022	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
8/8/2022	8/13/2022	184.05	7.79	0.28	2.43	0.49	26.48	194.2	0.14
8/15/2022	8/16/2022	190.90	7.70	0.29	2.04	0.31	25.83	194.8	0.14
8/22/2022	8/22/2022	197.68	7.78	0.30	2.44	0.16	25.21	200.4	0.15
8/29/2022	8/29/2022	185.94	7.85	0.29	1.55	0.64	27.33	14.9	0.14
9/6/2022	9/7/2022	192.36	7.80	0.30	2.95	1.07	26.54	194.7	0.14
9/12/2022	9/13/2022	192.31	7.81	0.30	2.16	1.15	25.80	177.1	0.14
9/19/2022	9/20/2022	207.05	7.82	0.32	0.92	0.85	25.90	160.5	0.15
9/26/2022	9/27/2022	198.23	7.86	0.30	1.50	0.78	26.17	54.9	0.15
10/3/2022	10/5/2022	196.56	7.78	0.30	1.77	1.07	25.87	87.8	0.15
10/17/2022	10/17/2022	219.91	7.65	0.34	2.49	1.62	26.76	118.2	0.16
10/17/2022	10/19/2022	181.99	7.85	0.28	2.01	0.58	23.61	147.9	0.13
10/24/2022	10/24/2022	177.77	7.88	0.27	2.32	1.10	26.05	247.4	0.13
10/24/2022	10/26/2022	184.43	7.80	0.28	2.36	0.72	25.33	287.3	0.14
10/31/2022	10/31/2022	178.21	8.00	0.27	0.85	0.70	25.70	197.7	0.13
10/31/2022	11/2/2022	203.61	7.84	0.31	3.18	0.63	25.37	86.8	0.15

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW15 - Zone 5									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	12/2/2021	193.00	7.42	0.30	1.59	0.04	29.75	124.3	0.1
12/6/2021	12/9/2021	198.14	8.04	0.31	1.22	0.31	24.62	134.1	0.1
12/13/2021	12/14/2021	201.56	7.83	0.31	2.31	0.51	23.45	109.2	0.1
12/20/2021	12/21/2021	201.69	7.64	0.31	1.61	0.29	20.22	50.5	0.1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/28/2021	203.71	7.98	0.31	0.74	0.25	22.51	162.4	0.2
1/3/2022	1/4/2022	241.76	8.10	0.37	2.30	2.65	23.04	206.2	0.2
1/10/2022	1/11/2022	237.69	7.80	0.37	0.80	1.16	19.68	65.9	0.2
1/16/2022	1/16/2022	206.46	7.79	0.32	1.46	0.13	23.47	74.5	0.2
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/4/2022	214.45	7.57	0.33	2.32	0.31	23.14	120.7	0.16
3/7/2022	3/7/2022	225.85	7.41	0.35	1.87	1.29	23.00	140.3	0.17
3/14/2022	3/14/2022	195.28	7.78	0.30	1.07	0.74	30.45	140.1	0.14
3/21/2022	3/21/2022	213.14	7.42	0.33	1.38	0.17	24.61	163.5	0.16
3/28/2022	3/28/2022	226.01	7.74	0.35	1.36	0.01	24.67	138.4	0.16
4/4/2022	4/4/2022	220.87	7.78	0.34	1.43	0.04	24.03	149.3	0.16
4/25/2022	4/25/2022	209.54	7.58	0.32	1.68	0.24	25.06	148.4	0.16
5/2/2022	5/2/2022	211.79	7.69	0.33	1.60	0.21	23.38	201.9	0.16
5/9/2022	5/9/2022	208.87	7.63	0.32	1.56	0.09	25.26	67.6	0.15
5/16/2022	5/16/2022	235.92	7.75	0.36	1.69	0.00	24.81	118.8	0.18
5/23/2022	5/23/2022	189.37	7.75	0.29	1.69	0.23	27.62	211.7	0.14
5/30/2022	6/3/2022	217.10	7.77	0.33	1.91	0.09	28.94	103.7	0.16
6/6/2022	6/6/2022	213.69	7.68	0.33	1.43	9.90	27.80	200.3	0.16
6/13/2022	6/13/2022	208.93	7.83	0.32	1.68	0.48	28.46	218.1	0.15
6/20/2022	6/20/2022	208.97	7.73	0.32	1.40	0.51	28.88	152.1	0.15
6/27/2022	6/28/2022	200.02	7.73	0.31	1.36	0.64	27.35	183.6	0.15
7/4/2022	7/8/2022	209.88	7.81	0.32	1.52	0.78	26.65	181.7	0.16
7/11/2022	7/11/2022	203.22	7.70	0.31	1.51	0.91	27.97	186.3	0.15
8/1/2022	8/2/2022	214.56	7.84	0.33	1.88	0.41	25.89	163.1	0.16
8/8/2022	8/12/2022	211.82	7.74	0.33	1.51	0.66	26.42	190.7	0.16
8/15/2022	8/15/2022	218.90	7.88	0.34	2.30	0.00	26.70	195.6	0.16
8/22/2022	8/23/2022	241.96	7.50	0.37	1.96	0.00	24.73	212.8	0.18
8/29/2022	8/30/2022	210.88	7.79	0.32	1.33	0.53	27.84	157.7	0.16
9/6/2022	9/6/2022	210.55	7.71	0.32	1.66	1.29	28.06	145.6	0.16
9/12/2022	9/12/2022	214.53	7.76	0.33	2.09	1.25	28.17	188.9	0.16
9/19/2022	9/19/2022	209.23	7.88	0.32	1.19	0.97	26.73	158.2	0.15
9/26/2022	9/26/2022	254.11	7.59	0.39	1.67	1.04	28.44	95.8	0.19
10/3/2022	10/4/2022	221.15	7.67	0.34	0.76	0.10	27.56	73.4	0.16
10/17/2022	10/18/2022	234.64	7.76	0.36	1.50	1.27	27.38	129.9	0.17
10/17/2022	10/20/2022	218.02	7.96	0.34	1.04	1.29	25.82	148.7	0.16
10/24/2022	10/25/2022	202.49	7.84	0.31	1.62	0.84	26.96	266.0	0.15
10/24/2022	10/27/2022	197.26	7.70	0.30	1.86	0.80	27.08	194.9	0.15
10/31/2022	11/1/2022	214.20	7.78	0.33	2.53	0.69	26.27	126.0	0.16
10/31/2022	11/3/2022	219.31	7.80	0.34	1.83	0.76	25.26	136.2	0.16

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW16									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	10/1/2021	296.92	7.68	0.46	5.60	3.20	27.94	160.0	0.2
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	12/22/2021	285.85	8.05	0.44	8.14	1.80	21.47	53.2	0.2
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/29/2021	283.18	7.84	0.44	8.48	3.91	21.56	66.8	0.2
1/3/2022	1/5/2022	283.54	8.03	0.44	8.24	2.45	20.68	57.0	0.2
1/10/2022	1/12/2022	285.52	8.02	0.44	7.87	0.32	24.27	430.2	0.2
1/16/2022	1/17/2022	284.20	7.95	0.44	7.78	0.10	19.79	59.1	0.2
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/1/2022	283.73	7.84	0.44	8.27	2.36	24.31	360.9	0.2
3/7/2022	3/8/2022	297.88	7.55	0.46	6.13	0.00	24.76	166.8	0.22
3/14/2022	3/15/2022	302.17	7.35	0.47	6.17	0.49	25.14	190.0	0.23
3/21/2022	3/22/2022	279.34	7.80	0.43	6.50	0.62	24.45	153.6	0.21
3/28/2022	3/31/2022	291.59	7.63	0.45	7.86	1.43	25.53	178.6	0.22
4/4/2022	4/4/2022	291.98	7.76	0.46	4.61	7.70	24.47	185.4	0.22
4/25/2022	4/26/2022	279.31	7.69	0.43	5.42	0.23	24.16	206.7	0.21
5/2/2022	5/3/2022	286.02	7.70	0.44	3.37	0.00	24.47	214.4	0.21
5/9/2022	5/10/2022	280.09	7.75	0.43	5.04	0.06	24.30	175.5	0.21
5/16/2022	5/17/2022	268.45	7.74	0.41	5.55	0.00	24.72	193.4	0.20
5/23/2022	5/24/2022	279.75	8.01	0.43	6.54	0.04	24.51	119.4	0.21
5/30/2022	6/1/2022	290.55	7.93	0.45	4.96	1.19	24.56	106.7	0.22
6/6/2022	6/7/2022	278.66	7.86	0.43	5.46	0.00	24.56	149.1	0.21
6/13/2022	6/14/2022	278.72	7.80	0.43	5.51	0.00	24.46	206.5	0.21
6/20/2022	6/21/2022	300.17	8.66	0.46	6.06	0.00	24.32	204.7	0.22
6/27/2022	6/29/2022	277.92	7.83	0.43	6.75	0.00	24.41	198.1	0.21
7/4/2022	7/8/2022	279.54	7.87	0.43	5.63	0.00	24.36	192.0	0.21
7/11/2022	7/11/2022	279.27	7.87	0.43	6.08	0.14	24.45	197.0	0.21
8/1/2022	8/2/2022	288.77	7.83	0.44	6.11	0.31	24.46	200.1	0.22
8/8/2022	8/9/2022	277.36	7.84	0.43	5.60	0.28	24.98	211.5	0.21
8/15/2022	8/16/2022	284.23	7.80	0.44	5.85	0.00	25.07	227.1	0.21
8/22/2022	8/25/2022	272.28	7.77	0.42	6.42	0.00	24.96	207.4	0.20
8/29/2022	9/1/2022	271.44	7.85	0.42	6.91	0.00	25.47	231.0	0.20
9/6/2022	9/7/2022	277.16	7.89	0.43	6.78	0.21	24.78	235.6	0.21
9/12/2022	9/13/2022	276.47	7.88	0.43	6.65	0.35	25.03	215.3	0.21
9/19/2022	9/22/2022	295.60	7.65	0.45	7.40	0.28	25.67	260.4	0.22
9/26/2022	9/27/2022	271.68	7.85	0.42	7.54	0.31	24.78	149.2	0.20
10/3/2022	10/4/2022	290.58	7.82	0.45	6.63	0.00	24.56	159.4	0.22
10/17/2022	10/18/2022	268.70	7.76	0.41	6.87	0.29	25.48	198.6	0.20
10/17/2022	10/20/2022	308.01	7.74	0.47	6.69	0.59	25.82	199.3	0.23
10/24/2022	10/24/2022	292.17	7.96	0.45	6.97	1.50	23.89	197.9	0.22
10/24/2022	10/27/2022	321.43	7.84	0.49	6.78	0.11	25.05	180.1	0.24
10/31/2022	11/1/2022	254.78	7.88	0.39	6.53	0.05	24.92	268.6	0.19
10/31/2022	11/3/2022	273.56	7.95	0.42	7.12	0.12	24.40	236.5	0.20

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW17									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
1/3/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
1/10/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
1/16/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
1/24/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
1/31/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/7/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/14/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
3/7/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
3/14/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
3/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
3/28/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
4/4/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
4/25/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/2/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/9/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/16/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/23/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/30/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/6/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/13/2022	6/15/2022[g]	339.58	7.48	0.52	6.99	11.33	23.73	213.4	0.25
6/20/2022	6/23/2022	319.90	7.29	0.49	6.48	8.90	24.34	54.3	0.24
6/27/2022	7/1/2022	310.58	7.77	0.48	5.82	11.88	24.83	16.4	0.23
7/4/2022	7/6/2022	318.08	7.61	0.49	6.04	0.49	23.21	187.5	0.24
7/11/2022	7/12/2022	306.91	7.35	0.47	5.61	0.00	23.98	271.7	0.23
8/1/2022	8/3/2022	298.17	7.37	0.46	4.96	4.35	25.27	161.8	0.22
8/8/2022	8/10/2022	311.64	7.31	0.48	2.35	13.10	25.30	-110.9	0.23
8/15/2022	8/17/2022	347.25	7.28	0.53	5.00	0.64	26.00	227.5	0.26
8/22/2022	8/24/2022	291.70	7.43	0.45	4.58	0.60	24.78	193.2	0.22
8/29/2022	8/31/2022	294.22	7.30	0.45	3.77	1.05	24.29	205.4	0.22
9/6/2022	9/9/2022	300.88	7.55	0.46	4.90	1.12	25.14	233.7	0.22
9/12/2022	9/14/2022	273.19	7.26	0.42	4.79	1.40	26.37	228.0	0.20
9/19/2022	9/21/2022	297.93	7.34	0.46	4.26	0.00	23.65	102.8	0.22
9/26/2022	9/28/2022	284.29	7.27	0.44	4.77	0.87	23.79	151.6	0.21
10/3/2022	10/5/2022	291.84	7.17	0.45	4.83	0.79	24.16	201.9	0.22
10/17/2022	10/19/2022	319.62	7.33	0.49	4.95	0.74	25.30	195.1	0.24
10/17/2022	10/21/2022	327.76	7.68	0.50	5.53	0.40	29.25	137.3	0.25
10/24/2022	10/25/2022	290.14	7.55	0.45	4.41	0.40	23.90	256.5	0.22
10/24/2022	10/28/2022	333.03	7.26	0.51	5.42	0.44	26.37	148.1	0.25
10/31/2022	11/1/2022	338.22	7.68	0.52	4.86	0.26	23.94	182.1	0.25
10/31/2022	11/3/2022	267.12	7.67	0.41	4.25	4.47	25.70	76.5	0.20

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW19									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	9/30/2021	209.76	7.15	0.32	9.46	0.76	24.02	176.7	0.2
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
1/3/2022	1/7/2022	182.51	7.84	0.28	9.75	0.50	22.90	58.9	0.1
1/10/2022	1/12/2022	181.29	7.63	0.28	9.07	4.01	20.06	103.0	0.1
1/16/2022	1/19/2022	187.89	9.15	0.29	8.73	0.19	22.57	122.9	0.1
1/24/2022	1/25/2022	205.49	9.05	0.32	9.18	0.39	22.31	136.8	0.2
1/31/2022	2/2/2022	199.05	8.53	0.21	8.69	0.51	25.73	101.5	0.1
2/7/2022	2/9/2022	191.78	8.04	0.30	8.68	3.43	22.66	233.2	0.1
2/14/2022	2/17/2022	178.97	7.61	0.27	8.33	0.44	22.35	130.7	0.1
2/21/2022	2/24/2022	199.88	7.65	0.31	10.71	0.00	13.78	179.3	0.1
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/4/2022	184.90	7.22	0.27	11.51	13.68	27.10	236.5	0.14
3/7/2022	3/9/2022	184.33	7.58	0.28	9.42	0.00	24.00	155.5	0.14
3/14/2022	3/14/2022	188.78	7.44	0.29	9.74	0.07	23.81	234.0	0.14
3/21/2022	3/21/2022	180.93	7.80	0.28	9.44	0.11	24.39	215.3	0.13
3/28/2022	3/28/2022	178.33	7.42	0.27	8.91	0.30	23.39	155.3	0.13
4/4/2022	4/8/2022	179.34	7.07	0.28	8.95	0.62	22.35	220.3	0.13
4/25/2022	4/28/2022	186.23	7.84	0.29	8.13	0.43	24.01	208.5	0.14
5/2/2022	5/2/2022	183.00	8.01	0.28	8.68	0.75	22.21	92.8	0.14
5/9/2022	5/9/2022	180.88	7.45	0.28	8.58	1.87	24.51	220.7	0.13
5/16/2022	5/18/2022	177.87	7.53	0.27	10.16	1.80	23.97	231.4	0.13
5/23/2022	5/25/2022	178.78	7.65	0.28	8.84	0.74	25.13	113.6	0.13
5/30/2022	6/1/2022	193.40	7.20	0.30	8.47	1.43	25.95	149.1	0.14
6/6/2022	6/6/2022	195.23	7.29	0.30	8.28	22.40	25.36	67.8	0.14
6/13/2022	6/13/2022	181.23	7.72	0.28	8.13	0.34	32.01	188.6	0.13
6/20/2022	6/20/2022	171.07	7.02	0.26	8.55	3.22	23.40	83.6	0.13
6/27/2022	6/28/2022	178.51	7.24	0.27	8.70	0.10	22.88	193.8	0.13
7/4/2022	7/5/2022	187.99	7.43	0.29	8.60	3.30	24.00	67.0	0.14
7/11/2022	7/11/2022	175.64	6.96	0.27	8.63	2.66	23.40	193.5	0.13
8/1/2022	8/1/2022	187.71	7.58	0.29	8.87	0.00	24.44	175.7	0.14
8/8/2022	8/8/2022	180.94	7.67	0.28	8.41	0.18	23.89	230.8	0.13
8/15/2022	8/15/2022	173.68	7.98	0.27	8.49	3.76	25.18	139.9	0.13
8/22/2022	8/22/2022	186.48	7.86	0.29	8.29	0.84	25.57	155.8	0.14
8/29/2022	8/29/2022	181.26	7.44	0.28	8.61	0.28	25.15	142.5	0.13
9/6/2022	9/7/2022	178.95	7.80	0.28	8.35	1.98	24.16	158.1	0.13
9/12/2022	9/12/2022	181.42	7.64	0.28	8.49	0.37	23.42	157.7	0.13
9/19/2022	9/19/2022	182.23	7.99	0.28	8.60	0.69	23.21	133.3	0.13
9/26/2022	9/26/2022	176.11	7.35	0.27	8.44	0.13	23.24	61.2	0.13
10/3/2022	10/3/2022	247.65	7.37	0.38	9.79	1.97	27.06	109.5	0.18
10/17/2022	10/17/2022	193.87	7.61	0.30	7.23	0.47	24.28	-12.9	0.14
10/17/2022	10/19/2022	185.04	7.72	0.28	8.46	0.00	23.88	165.4	0.14
10/24/2022	10/24/2022	191.02	7.92	0.29	8.71	0.00	24.13	148.1	0.14
10/24/2022	10/26/2022	169.67	7.32	0.26	8.79	1.91	23.06	337.9	0.13
10/31/2022	10/31/2022	173.31	7.75	0.27	8.64	5.49	24.52	88.3	0.13
10/31/2022	11/2/2022	175.10	7.87	0.27	8.65	3.74	22.84	73.1	0.13

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

OWDFMW01									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	10/1/2021	2517.32	11.56	3.87	7.71	1.05	27.74	137.8	2.1
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	12/1/2021	2987.69	8.18	4.60	5.39	2.71	25.76	261.6	2.5
12/6/2021	12/8/2021	3027.85	8.21	4.66	5.98	8.33	25.30	161.7	2.5
12/13/2021	12/13/2021	3012.87	8.26	4.63	5.86	3.08	24.68	166.7	2.5
12/20/2021	12/21/2021	2994.76	7.91	4.61	5.07	1.41	24.75	92.8	2.5
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/27/2021	3012.78	8.06	4.64	6.59	5.95	25.00	81.4	2.5
1/3/2022	1/4/2022	2985.58	7.61	4.60	5.71	0.18	21.92	52.7	2.5
1/10/2022	1/11/2022	2941.57	8.11	4.53	5.58	1.27	24.45	156.9	2.4
1/16/2022	1/17/2022	2943.42	8.04	4.53	5.21	1.19	25.59	130.2	2.4
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/3/2022	2893.50	8.10	4.45	5.86	2.86	27.23	140.9	2.40
3/7/2022	3/10/2022	2851.89	8.32	4.39	5.47	6.12	26.10	130.7	2.37
3/14/2022	3/15/2022	3109.50	8.12	4.78	6.00	9.59	27.15	80.6	2.60
3/21/2022	3/23/2022	3009.80	7.90	4.63	5.62	0.91	26.31	181.6	2.51
3/28/2022	3/30/2022	2920.50	7.95	4.49	6.27	3.26	26.13	152.0	2.43
4/4/2022	4/6/2022*	0.03	6.23	0.00	8.24	0.65	26.44	257.5	0.00
4/25/2022	4/27/2022	2903.00	8.07	4.47	6.10	0.86	26.40	183.2	2.41
5/2/2022	5/4/2022	2984.27	7.88	4.59	5.92	0.18	26.30	181.5	2.48
5/9/2022	5/11/2022	2909.82	7.89	4.48	6.29	1.43	26.46	147.9	2.42
5/16/2022	5/20/2022	2998.20	7.72	4.61	5.95	12.48	26.14	171.6	2.50
5/23/2022	5/25/2022	3055.94	7.86	4.70	7.48	1.69	26.90	123.8	2.55
5/30/2022	5/31/2022	2882.62	7.78	4.43	5.96	1.82	27.07	104.1	2.39
6/6/2022	6/9/2022	2796.64	8.03	4.30	6.72	0.25	28.86	120.9	2.32
6/13/2022	6/15/2022	2936.83	7.71	4.52	5.44	0.00	26.92	173.8	2.44
6/20/2022	6/24/2022	2879.99	7.75	4.43	6.53	2.54	26.32	213.5	2.39
6/27/2022	6/28/2022	3116.57	7.61	4.79	5.97	0.00	26.94	247.9	2.60
7/4/2022	7/6/2022	2873.54	7.82	4.42	5.47	1.07	26.21	161.0	2.39
7/11/2022	7/12/2022	2851.21	7.75	4.39	5.65	3.13	27.11	172.7	2.37
8/1/2022	8/3/2022	2767.98	8.02	4.26	5.64	1.06	26.71	168.6	2.29
8/8/2022	8/10/2022	2999.40	7.67	4.61	6.06	1.65	26.63	195.2	2.50
8/15/2022	8/17/2022	2931.64	7.72	4.51	5.48	5.37	28.65	186.9	2.44
8/22/2022	8/24/2022	2747.79	7.82	4.23	6.63	4.14	27.30	194.2	2.28
8/29/2022	8/31/2022	2856.53	7.59	4.39	6.09	7.31	27.37	196.0	2.37
9/6/2022	9/9/2022	2911.11	7.62	4.48	6.68	3.94	27.02	210.6	2.42
9/12/2022	9/14/2022	2907.72	7.57	4.47	6.04	1.27	27.51	146.2	2.42
9/19/2022	9/21/2022	2978.48	7.73	4.58	5.13	2.23	27.56	77.4	2.48
9/26/2022	9/28/2022	2844.98	7.60	4.38	6.00	0.80	27.60	130.0	2.36
10/3/2022	10/5/2022	3010.62	7.45	4.63	5.22	1.30	26.83	165.1	2.51
10/17/2022	10/19/2022	3115.95	7.47	4.79	5.79	0.37	26.30	169.6	2.60
10/17/2022	10/21/2022	2835.12	7.80	4.36	5.73	24.70	26.27	171.1	2.35
10/24/2022	10/25/2022	2852.75	7.70	4.39	5.40	3.68	27.54	270.5	2.37
10/24/2022	10/28/2022	2899.79	7.84	4.46	5.57	0.35	26.31	147.5	2.41
10/31/2022	11/2/2022	3050.24	7.76	4.69	5.44	0.64	26.25	165.0	2.54
10/31/2022	11/4/2022	2711.41	8.03	4.17	5.51	7.40	26.81	112.9	2.24

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

RHMW2254-01									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	10/6/2021	415.09	7.52	0.64	8.14	0.00	21.33	71.4	0.3
10/11/2021	10/13/2021	417.78	7.61	0.64	8.64	0.03	21.85	164.7	0.3
10/18/2021	10/20/2021	429.27	7.46	0.66	8.63	0.07	21.25	102.8	0.3
10/25/2021	10/26/2021	425.03	7.55	0.65	8.63	0.05	21.13	96.3	0.3
11/1/2021	11/3/2021	413.91	7.82	0.64	8.07	0.18	21.87	184.8	0.3
11/8/2021	11/10/2021	422.24	6.98	0.65	8.66	0.01	21.74	163.1	0.3
11/15/2021	11/17/2021	415.59	7.80	0.64	8.71	0.00	21.46	373.5	0.3
11/22/2021	11/24/2021	416.77	7.73	0.64	8.21	0.00	20.97	67.2	0.3
11/29/2021	12/1/2021	402.73	7.27	0.62	8.40	0.00	21.90	209.7	0.3
12/6/2021	12/8/2021	391.73	7.69	0.60	7.31	NM	23.39	116.3	0.3
12/13/2021	12/15/2021	362.34	7.34	0.56	3.52	0.38	20.96	56.2	0.3
12/20/2021	12/20/2021	388.64	7.49	0.60	1.97	1.80	23.77	197.7	0.3
12/20/2021	12/21/2021	348.68	7.16	0.52	2.39	0.13	21.72	138.1	0.3
12/27/2021	12/27/2021	349.39	7.25	0.54	1.53	0.22	21.83	51.3	0.3
1/3/2022	1/3/2021	302.76	7.28	0.46	1.58	0.00	22.43	262.2	0.2
1/10/2022	1/10/2022	348.29	7.19	0.53	1.02	NM	18.81	47.6	0.3
1/16/2022	1/20/2022	339.90	7.38	0.52	1.63	0.14	22.35	125.4	0.3
1/24/2022	1/24/2022	300.40	6.78	0.46	4.31	0.31	22.17	109.1	0.2
1/31/2022	2/3/2022	345.67	7.53	0.53	9.48	NM	15.16	69.7	0.3
2/7/2022	2/10/2022	359.30	7.70	0.55	8.45	0.00	21.81	120.0	0.3
2/14/2022	2/17/2022	368.33	7.55	0.57	8.51	0.24	22.09	331.1	0.3
2/21/2022	2/22/2022	372.40	7.65	0.57	8.23	0.00	22.08	366.5	0.3
2/21/2022	2/26/2022	361.16	8.04	0.56	8.50	0.09	22.02	322.6	0.3
2/28/2022	3/3/2022	359.33	7.43	0.55	8.49	0.02	22.17	145.6	0.27
3/7/2022	3/9/2022	371.30	7.14	0.57	8.46	0.00	22.07	171.6	0.28
3/14/2022	3/17/2022	428.91	7.26	0.66	8.54	0.29	22.21	223.2	0.32
3/21/2022	3/24/2022	370.01	7.37	0.57	8.52	8.72	22.07	275.5	0.28
3/28/2022	3/29/2022	362.91	7.44	0.56	8.52	0.67	22.07	230.2	0.27
4/4/2022	4/7/2022	371.21	7.40	0.57	8.58	0.62	22.06	220.5	0.28
4/25/2022	4/28/2022	366.64	7.32	0.56	8.59	0.82	21.88	21.7	0.28
5/2/2022	5/5/2022	383.42	7.38	0.59	9.38	0.65	21.95	85.0	0.29
5/9/2022	5/12/2022	372.95	7.38	0.57	8.60	0.00	21.94	149.4	0.28
5/16/2022	5/19/2022	361.70	7.30	0.56	8.66	0.00	21.96	58.8	0.27
5/23/2022	5/26/2022	366.17	7.30	0.56	8.70	0.15	21.97	55.0	0.28
5/30/2022	6/2/2022	379.43	7.41	0.58	8.60	0.11	21.95	51.6	0.29
6/6/2022	6/9/2022	369.57	7.34	0.57	8.68	0.00	21.90	210.7	0.28
6/13/2022	6/16/2022	346.23	7.14	0.53	8.69	1.00	21.87	185.2	0.26
6/20/2022	6/23/2022	369.73	7.11	0.57	8.86	0.36	21.93	84.8	0.28
6/27/2022	7/1/2022	371.79	7.13	0.57	8.73	3.61	22.13	80.7	0.28
7/4/2022	7/7/2022	373.12	7.08	0.57	8.66	1.41	22.15	87.4	0.28
7/11/2022	7/13/2022	369.97	6.87	0.57	9.43	0.73	21.97	208.0	0.28
8/1/2022	8/4/2022	378.67	7.67	0.58	8.65	0.00	21.81	219.8	0.29
8/8/2022	8/11/2022	365.09	7.41	0.56	8.74	0.00	22.03	284.1	0.27
8/15/2022	8/18/2022	363.62	7.48	0.56	8.74	4.89	22.14	280.8	0.27
8/22/2022	8/25/2022	380.58	7.61	0.59	8.64	0.00	21.89	197.2	0.29
8/29/2022	9/1/2022	388.72	7.71	0.60	8.62	0.00	21.93	71.3	0.29
9/6/2022	9/8/2022	379.74	7.77	0.58	8.64	0.00	21.82	173.2	0.29
9/12/2022	9/15/2022	397.41	7.72	0.61	8.61	0.00	22.18	162.6	0.30
9/19/2022	9/22/2022	391.18	7.54	0.60	8.66	0.14	22.16	83.5	0.29
9/26/2022	9/29/2022	382.31	7.73	0.59	8.67	0.23	22.25	106.8	0.29
10/3/2022	10/6/2022	448.65	7.26	0.69	8.60	0.07	22.03	138.7	0.34
10/17/2022	10/18/2022	401.24	7.80	0.62	8.63	0.00	21.73	181.0	0.30
10/17/2022	10/20/2022	397.77	7.84	0.61	8.67	0.00	21.92	181.9	0.30
10/24/2022	10/25/2022	438.23	7.51	0.67	8.73	0.13	22.06	174.9	0.33
10/24/2022	10/27/2022	430.55	7.61	0.66	8.77	0.22	22.44	210.3	0.33
10/31/2022	11/1/2022	460.85	7.50	0.71	8.68	0.00	21.99	211.4	0.35
10/31/2022	11/3/2022	355.42	7.52	0.55	8.32	0.07	24.20	140.1	0.27

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

OWDFMW04A									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/30/2021	584.21	8.77	0.90	3.87	0.50	21.34	48.5	0.4
1/3/2022	1/6/2022	588.13	8.86	0.91	1.01	0.01	24.51	139.9	0.5
1/10/2022	1/13/2022	572.58	8.73	0.88	1.48	0.34	24.22	186.7	0.4
1/16/2022	1/16/2022	597.95	8.59	0.92	1.67	0.07	24.31	204.6	0.5
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/2/2022	611.77	7.88	0.93	4.52	2.20	25.88	185.7	0.47
3/7/2022	3/9/2022	669.87	7.78	1.03	3.06	0.00	24.58	198.7	0.52
3/14/2022	3/16/2022	638.54	7.71	0.98	2.68	0.00	24.82	166.5	0.49
3/21/2022	3/21/2022	588.64	7.88	0.91	2.66	0.00	24.69	145.7	0.45
3/28/2022	3/28/2022	591.11	7.76	0.91	2.36	0.00	24.42	141.3	0.45
4/4/2022	4/5/2022	633.09	7.76	0.97	2.54	0.32	25.03	186.7	0.49
4/25/2022	4/25/2022	599.73	7.88	0.92	3.44	0.28	25.43	193.4	0.46
5/2/2022	5/2/2022	603.22	7.77	0.93	2.97	0.00	24.37	189.4	0.46
5/9/2022	5/9/2022	598.68	7.44	0.92	3.00	0.00	25.43	150.3	0.46
5/16/2022	5/18/2022	606.39	7.74	0.93	3.16	0.00	25.21	163.2	0.46
5/23/2022	5/23/2022	614.83	7.51	0.95	3.09	0.00	25.27	38.8	0.47
5/30/2022	6/3/2022	612.77	7.84	0.94	3.16	0.08	25.45	116.8	0.47
6/6/2022	6/6/2022	606.47	7.77	0.93	3.12	0.19	26.28	103.6	0.46
6/13/2022	6/13/2022	606.38	7.81	0.93	3.30	0.25	25.93	123.5	0.46
6/20/2022	6/22/2022	614.52	7.72	0.95	3.21	0.05	25.53	150.0	0.47
6/27/2022	6/30/2022	610.83	7.70	0.94	3.09	0.04	24.86	184.7	0.47
7/4/2022	7/5/2022	607.67	7.81	0.93	3.18	0.10	25.06	185.6	0.47
7/11/2022	7/15/2022	601.54	7.71	0.93	3.37	0.37	25.11	156.2	0.46
8/1/2022	8/1/2022	630.14	7.68	0.97	3.46	0.00	25.10	179.1	0.48
8/8/2022	8/8/2022	634.00	7.72	0.98	3.82	0.28	26.71	201.7	0.49
8/15/2022	8/15/2022	623.95	7.42	0.96	3.38	0.00	25.44	223.5	0.48
8/22/2022	8/22/2022	603.36	7.67	0.93	3.49	0.00	25.84	171.1	0.46
8/29/2022	8/29/2022	547.36	7.64	0.84	3.20	0.25	25.52	140.9	0.42
9/6/2022	9/6/2022	619.48	7.60	0.95	3.37	1.37	26.63	188.0	0.47
9/12/2022	9/12/2022	624.61	7.64	0.96	3.08	0.90	25.46	161.2	0.48
9/19/2022	9/21/2022	636.78	7.55	0.98	3.19	1.26	25.62	63.3	0.49
9/26/2022	9/26/2022	630.59	7.51	0.97	2.91	0.57	26.09	80.2	0.48
10/3/2022	10/3/2022	625.11	7.65	0.96	2.88	0.50	25.06	100.8	0.48
10/17/2022	10/17/2022	722.06	7.64	1.11	3.21	1.36	27.01	106.2	0.56
10/17/2022	10/21/2022	664.86	7.71	1.02	3.15	0.92	25.15	141.7	0.51
10/24/2022	10/26/2022	702.99	7.90	1.08	3.04	0.01	25.48	137.0	0.54
10/24/2022	10/28/2022	672.94	7.67	1.04	2.89	0.34	25.41	153.0	0.52
10/31/2022	10/31/2022	791.77	7.59	1.22	2.81	0.70	24.70	157.3	0.61
10/31/2022	11/4/2022	783.84	7.40	1.21	2.79	0.21	25.08	107.0	0.61

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

OWDFMW05A									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/31/2021	477.00	7.97	0.73	0.62	0.58	22.18	43.5	0.4
1/3/2022	1/6/2022	485.69	7.61	0.75	0.59	0.47	24.70	81.1	0.4
1/10/2022	1/13/2022	476.15	7.93	0.73	0.43	0.31	20.66	31.0	0.4
1/16/2022	1/16/2022	469.00	7.90	0.72	0.68	0.31	21.17	56.8	0.4
1/24/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
1/31/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/7/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/14/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	3/2/2022	496.34	7.75	0.76	1.26	39.08	25.26	174.8	0.38
3/7/2022	3/7/2022	486.53	7.85	0.75	0.51	1.12	26.42	-18.7	0.37
3/14/2022	3/17/2022	560.47	7.65	0.86	0.71	164.63	26.16	124.6	0.43
3/21/2022	3/22/2022	473.91	7.57	0.73	0.25	0.05	25.05	-26.3	0.36
3/28/2022	3/28/2022	473.20	7.64	0.73	0.33	0.00	25.22	-18.9	0.36
4/4/2022	4/5/2022	504.40	7.56	0.78	1.18	13.59	25.16	181.1	0.38
4/25/2022	4/25/2022	483.45	7.70	0.74	0.70	1.76	26.28	146.5	0.37
5/2/2022	5/2/2022	487.60	7.65	0.75	0.28	0.00	24.87	71.8	0.37
5/9/2022	5/9/2022	473.06	7.61	0.73	0.65	0.00	26.99	110.3	0.36
5/16/2022	5/18/2022	482.46	7.63	0.74	0.65	0.17	25.81	115.7	0.37
5/23/2022	5/23/2022	456.17	7.58	0.70	0.39	218.53	25.72	59.6	0.35
5/30/2022	6/3/2022	482.67	7.73	0.74	0.51	0.10	25.90	87.5	0.37
6/6/2022	6/6/2022	485.33	7.75	0.75	0.37	0.16	26.18	72.3	0.37
6/13/2022	6/13/2022	483.23	7.72	0.74	0.46	0.18	25.90	100.6	0.37
6/20/2022	6/20/2022	520.08	8.58	0.80	0.38	119.81	26.36	-11.3	0.40
6/27/2022	6/30/2022	490.46	7.68	0.75	0.45	9.76	26.39	118.9	0.37
7/4/2022	7/8/2022	489.52	7.73	0.75	0.39	7.92	25.28	66.4	0.37
7/11/2022	7/15/2022	475.95	7.73	0.73	0.53	1.12	26.44	72.8	0.36
8/1/2022	8/1/2022*	0.03	6.03	0.00	8.12	0.00	26.11	198.7	0.00
8/8/2022	8/8/2022	508.70	7.74	0.78	0.42	0.66	26.05	149.2	0.39
8/15/2022	8/15/2022	508.15	7.74	0.78	0.42	0.00	26.23	142.2	0.39
8/22/2022	8/22/2022	477.85	7.73	0.74	0.47	0.00	26.03	116.8	0.36
8/29/2022	8/29/2022	414.44	7.75	0.64	0.27	3.90	25.80	44.8	0.31
9/6/2022	9/6/2022	492.64	7.68	0.76	0.34	0.46	26.05	46.4	0.37
9/12/2022	9/12/2022	496.09	7.70	0.76	0.41	1.02	25.86	53.8	0.38
9/19/2022	9/19/2022	493.87	7.65	0.76	0.59	3.53	26.91	-8.6	0.38
9/26/2022	9/26/2022	506.29	7.70	0.78	0.32	0.40	25.81	-23.4	0.39
10/3/2022	10/3/2022	496.86	7.64	0.76	0.36	0.31	25.80	12.6	0.38
10/17/2022	10/17/2022	551.90	7.77	0.85	0.67	59.53	26.46	90.4	0.42
10/17/2022	10/21/2022	527.51	8.14	0.81	0.41	9.86	25.54	96.8	0.40
10/24/2022	10/26/2022	548.98	7.81	0.84	0.53	0.00	25.65	72.6	0.42
10/24/2022	10/28/2022	533.45	7.93	0.82	0.38	0.49	25.62	88.5	0.41
10/31/2022	10/31/2022	626.99	7.74	0.96	0.40	0.04	25.51	81.6	0.48
10/31/2022	11/4/2022	619.24	7.76	0.95	0.44	0.00	25.73	41.6	0.47

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

OWDFMW07A									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/31/2021	277.09	7.15	8.43	3.82	6.51	21.46	58.6	0.2
1/3/2022	1/6/2022	274.56	6.84	0.42	3.93	8.05	25.59	254.8	0.2
1/10/2022	1/13/2022	270.54	7.00	0.42	4.24	8.58	20.59	68.8	0.2
1/16/2022	1/20/2022	265.08	6.82	0.41	3.79	4.63	24.49	543.4	0.2
1/24/2022	1/24/2022	261.67	6.84	0.40	4.21	2.96	20.32	67.2	0.2
1/31/2022	2/2/2022	260.33	6.82	0.40	4.58	NM	18.21	61.7	0.7
2/7/2022	2/9/2022	259.49	6.92	0.40	4.65	2.42	17.93	56.7	0.2
2/14/2022	2/17/2022	260.36	6.94	0.40	5.17	2.18	16.93	62.2	0.2
2/21/2022	2/23/2022	264.58	6.84	0.41	4.46	1.20	15.98	70.7	0.2
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	2/28/2022	267.03	6.82	0.41	4.01	1.02	25.23	205.8	0.2
3/7/2022	3/9/2022	278.01	6.55	0.43	3.74	2.01	24.33	205.7	0.21
3/14/2022	3/16/2022	261.68	6.55	0.40	3.85	374.39	25.28	167.5	0.19
3/21/2022	3/23/2022	254.18	6.69	0.39	4.29	241.20	25.23	218.3	0.19
3/28/2022	3/31/2022	251.54	6.81	0.39	4.33	5.25	25.52	200.9	0.19
4/4/2022	4/7/2022	255.23	6.78	0.39	4.23	850.11	25.14	213.7	0.19
4/25/2022	4/27/2022	315.44	8.59	0.49	2.82	2.32	25.16	174.5	0.24
5/2/2022	5/5/2022	306.27	9.25	0.47	2.93	2.55	26.31	190.4	0.23
5/9/2022	5/12/2022	257.05	6.11	0.40	4.45	1.15	26.37	247.7	0.19
5/16/2022	5/19/2022	255.53	6.31	0.39	4.60	0.29	26.14	261.9	0.19
5/23/2022	5/26/2022	242.19	6.75	0.37	4.84	2.99	25.91	96.4	0.18
5/30/2022	6/2/2022	247.44	6.71	0.38	4.50	0.55	25.37	186.6	0.18
6/6/2022	6/8/2022	248.86	6.64	0.38	4.35	0.92	25.78	184.9	0.19
6/13/2022	6/16/2022	247.86	6.63	0.38	4.78	0.95	25.71	235.3	0.18
6/20/2022	6/21/2022	338.16	6.26	0.52	4.38	2.91	25.60	195.2	0.25
6/27/2022	7/1/2022	256.01	6.55	0.39	4.49	11.93	25.65	292.0	0.19
7/4/2022	7/7/2022	267.29	6.59	0.41	4.74	3.33	25.84	237.9	0.20
7/11/2022	7/13/2022	252.66	6.59	0.39	4.70	6.98	25.88	247.2	0.19
8/1/2022	8/4/2022	258.67	6.57	0.40	4.71	2.83	25.68	234.7	0.19
8/8/2022	8/11/2022	254.91	6.47	0.39	4.91	5.68	26.03	256.0	0.19
8/15/2022	8/18/2022	257.17[h]	6.68	0.40[h]	3.17	1.91	25.75	275.2	0.19[h]
8/22/2022	8/23/2022	247.52	6.61	0.38	5.17	4.17	26.02	283.0	0.18
8/29/2022	8/30/2022	251.33	6.61	0.39	3.86	1.51	25.96	253.9	0.19
9/6/2022	9/8/2022	270.08	6.59	0.42	4.55	1.42	25.56	261.2	0.20
9/12/2022	9/15/2022	258.30	6.57	0.40	4.61	4.77	26.23	171.6	0.19
9/19/2022	9/20/2022	260.96	6.54	0.40	3.84	3.57	25.33	151.7	0.19
9/26/2022	9/29/2022	272.69	6.50	0.42	4.25	26.96	25.26	218.5	0.20
10/3/2022	10/6/2022	264.16	6.51	0.41	4.60	11.94	25.82	226.8	0.20
10/17/2022	10/17/2022	254.82	6.50	0.39	4.21	4.10	25.27	227.0	0.19
10/17/2022	10/21/2022	268.71	6.53	0.41	4.52	4.09	25.37	247.2	0.20
10/24/2022	10/24/2022	264.84	6.59	0.41	4.18	2.86	25.12	331.4	0.20
10/24/2022	10/28/2022	237.69	6.68	0.37	4.43	4.34	25.17	287.3	0.18
10/31/2022	10/31/2022	244.82	6.67	0.38	3.90	6.78	26.29	257.3	0.18
10/31/2022	11/4/2022	239.72	6.70	0.37	4.00	5.88	25.72	272.2	0.18

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

OWDFMW08A									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
5/10/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/17/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/31/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/7/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/14/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
6/28/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/5/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
7/26/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/2/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/9/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/16/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/23/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
8/30/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
9/27/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/4/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/18/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
10/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/1/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/8/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/15/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/22/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
11/29/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/6/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
12/27/2021	12/30/2021	683.79	7.67	1.05	2.12	NM	23.82	69.1	0.5
1/3/2022	1/6/2022	684.05	7.60	1.06	2.52	0.01	24.62	99.2	0.5
1/10/2022	1/13/2022	661.18	7.69	1.02	3.49	4.94	24.97	220.1	0.5
1/16/2022	1/16/2022	688.91	7.66	1.06	3.13	5.83	25.61	302.9	0.5
1/24/2022	1/24/2022	676.08	7.64	1.04	3.89	3.24	19.95	66.2	0.5
1/31/2022	2/2/2022	670.56	7.28	1.03	5.52	2.04	20.00	66.6	0.5
2/7/2022	2/9/2022	667.39	7.28	1.03	5.96	1.16	18.80	63.5	0.5
2/14/2022	2/16/2022	675.95	7.32	1.04	5.25	NR	16.95	67.3	0.5
2/21/2022	2/23/2022	677.77	7.21	1.05	5.89	2.76	16.50	68.9	0.5
2/21/2022	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2/28/2022	2/28/2022	669.79	7.25	1.03	4.75	0.55	24.89	127.0	0.5
3/7/2022	3/7/2022	682.23	7.15	1.05	5.17	1.80	26.45	140.4	0.53
3/14/2022	3/17/2022	794.63	6.93	1.22	5.23	14.16	25.58	165.4	0.62
3/21/2022	3/24/2022	670.55	7.08	1.03	6.64	2.65	24.94	158.2	0.52
3/28/2022	3/31/2022	655.78	7.05	1.01	5.34	0.91	25.77	169.9	0.50
4/4/2022	4/7/2022	663.84	7.13	1.02	5.56	0.00	26.19	192.0	0.51
4/25/2022	4/27/2022	676.73	7.01	1.04	5.08	2.58	25.11	125.7	0.52
5/2/2022	5/5/2022	658.99	7.04	1.01	4.82	20.44	25.83	128.2	0.51
5/9/2022	5/12/2022	669.93	6.91	1.03	5.49	0.72	27.10	199.9	0.52
5/16/2022	5/19/2022	665.66	6.99	1.02	5.01	1.64	25.63	208.7	0.51
5/23/2022	5/26/2022	635.19	7.13	0.98	4.82	8.70	25.58	77.5	0.49
5/30/2022	6/2/2022	668.19	7.05	1.03	5.71	1.61	27.16	155.1	0.51
6/6/2022	6/8/2022	672.35	6.97	1.03	5.60	1.11	27.96	169.3	0.52
6/13/2022	6/16/2022	667.76	6.97	1.03	5.48	0.46	26.44	193.3	0.51
6/20/2022	6/23/2022	674.76	6.94	1.04	5.51	0.34	25.91	202.4	0.52
6/27/2022	7/1/2022	689.24	6.78	1.06	5.57	1.59	26.27	248.5	0.53
7/4/2022	7/7/2022	718.16	6.94	1.10	5.61	2.01	26.76	214.4	0.55
7/11/2022	7/13/2022	671.73	6.91	1.03	5.44	0.00	26.76	229.6	0.52
8/1/2022	8/4/2022	688.54	6.97	1.06	5.06	0.00	25.80	134.9	0.53
8/8/2022	8/11/2022	681.68	6.95	1.05	5.16	0.16	27.18	165.7	0.52
8/15/2022	8/19/2022	680.45	7.02	1.05	5.23	0.00	25.73	233.4	0.52
8/22/2022	8/23/2022	656.84	7.00	1.01	5.66	0.02	25.81	207.3	0.50
8/29/2022	8/31/2022	661.60	6.80	1.02	5.66	0.07	26.38	218.2	0.51
9/6/2022	9/8/2022	723.22	6.92	1.11	5.41	0.42	26.91	245.4	0.56
9/12/2022	9/15/2022	688.24	6.90	1.06	5.49	1.76	27.73	145.6	0.53
9/19/2022	9/22/2022	702.73	6.72	1.08	5.42	0.44	26.47	147.3	0.54
9/26/2022	9/29/2022	728.39	6.67	1.12	5.46	0.37	26.14	197.5	0.56
10/3/2022	10/6/2022	701.00	6.82	1.08	5.34	0.37	25.82	214.0	0.54
10/17/2022	10/17/2022	680.93	6.74	1.05	5.21	2.26	25.82	222.1	0.52
10/17/2022	10/21/2022	705.55	6.88	1.09	5.42	1.54	26.37	235.3	0.54
10/24/2022	10/24/2022	706.75	6.79	1.09	5.39	2.08	25.30	319.0	0.54
10/24/2022	10/28/2022	632.35	6.99	0.97	5.47	0.90	26.20	259.2	0.49
10/31/2022	10/31/2022	649.28	6.93	1.00	5.31	0.34	25.28	254.6	0.50
10/31/2022	11/4/2022	665.76	6.97	1.02	5.01	9.12	26.46	257.5	0.51

Table B.3: Groundwater Parameters from May 10, 2021 through November 4, 2022 (cont'd)

Adit 3 Sump Parameter Readings								
WEEK	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
	(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
12/13/2022	NC	NC	NC	NC	NC	NC	NC	NC
12/20/2022	NC	NC	NC	NC	NC	NC	NC	NC
12/27/2022	NC	NC	NC	NC	NC	NC	NC	NC
1/3/2022	572.00	7.59	0.88	6.66	1.06	25.57	169.8	0.4
1/10/2022	889.48	8.18	1.77	6.19	10.03	25.56	154.2	0.7
1/17/2022	763.84	7.45	1.17	6.03	0.61	25.05	137.1	0.6
1/24/2022	771.53	6.99	1.19	5.50	1.81	25.25	129.6	0.6
1/31/2022	421.71	7.59	0.65	7.99	NC	18.52	92.1	0.3
2/7/2022	442.88	7.76	0.68	6.00	96.20	NC	70.30	0.30
2/14/2022	432.70	7.46	0.67	7.47	0.13	25.30	230.50	0.30
2/21/2022	418.56	7.71	0.64	NC	6.14	25.58	196.9	0.3
2/28/2022	430.83	7.68	0.65	9.73	0.83	14.89	43.6	0.3
3/7/2022	451.05	7.11	0.69	7.45	1.75	26.31	159.7	0.34
3/14/2022	478.49	7.09	0.74	7.08	0.35	25.00	221.4	0.36
3/21/2022	305.72	7.42	0.47	7.52	0.02	26.11	148.3	0.23
3/28/2022	383.54	7.26	0.59	8.63	9.22	25.35	158.3	0.29
4/4/2022	403.22	7.22	0.62	7.72	1.17	25.35	194.7	0.30
4/25/2022	398.88	7.21	0.61	7.61	0.46	25.32	33.4	0.30
5/2/2022	411.30	7.24	0.63	8.47	0.15	25.31	138.6	0.31
5/9/2022	404.95	7.53	0.62	8.09	0.00	24.99	140.3	0.31
5/16/2022	399.89	7.46	0.62	7.98	4.08	25.50	48.4	0.30
5/23/2022	405.42	7.24	0.62	8.05	20.51	25.45	116.0	0.31
5/30/2022	404.06	7.40	0.62	7.97	9.89	25.50	124.4	0.30
6/6/2022	397.40	7.24	0.61	8.36	0.68	25.23	215.1	0.30
6/13/2022	397.11	7.46	0.61	7.94	0.63	25.49	135.3	0.30
6/20/2022	389.81	7.22	0.60	8.07	3.83	25.71	144.2	0.29
6/27/2022	397.85	7.20	0.61	7.87	2.78	25.53	71.8	0.30
7/4/2022	325.04	6.90	0.50	7.90	1.49	25.62	85.0	0.24
7/11/2022	387.67	7.25	0.60	8.81	0.26	25.68	179.1	0.29
8/1/2022	404.60	7.79	0.62	8.07	0.00	25.41	205.6	0.31
8/8/2022	379.61	7.83	0.58	8.05	0.00	25.97	216.7	0.29
8/15/2022	373.27	7.17	0.57	7.94	6.36	26.20	218.1	0.28
8/22/2022	397.02	7.90	0.61	8.02	0.00	25.99	248.3	0.30
8/29/2022	401.38	7.38	0.62	7.94	0.00	25.88	101.6	0.30
9/6/2022	392.78	7.92	0.60	8.00	0.99	25.56	182.2	0.30
9/12/2022	409.13	7.93	0.63	7.94	0.29	25.65	136.0	0.31
9/19/2022	400.48	7.18	0.62	8.01	3.58	25.72	102.0	0.30
9/29/2022	391.64	7.28	0.60	7.85	3.05	25.57	102.4	0.30
10/3/2022	437.31	7.36	0.67	7.75	0.21	26.06	100.2	0.33
10/17/2022	414.82	7.80	0.64	8.62	2.93	24.80	163.1	0.31
10/17/2022	410.17	7.71	0.63	8.07	0.10	25.11	181.5	0.31
10/24/2022	436.49	7.27	0.67	8.22	17.99	25.26	175.3	0.33
10/24/2022	441.80	7.51	0.68	7.93	2.88	25.19	128.5	0.33
10/31/2022	411.57	7.48	0.63	8.40	0.27	25.19	203.0	0.31
10/31/2022	371.45	7.50	0.57	7.80	0.71	27.09	41.5	0.28

D.O. = Dissolved Oxygen

g = Well entered into service after completion of well installation and development. First occurrence of NOI
comparing pre measurement value and expected value. Calibration factor applied to

NC1 = Not required in DOH Notice of Interest Letter of 24 Nov 21

NC3 = Not collected while awaiting replacement Westbay Controller

NC-WL = Not collected while water level study underway in conjunction with the start up of Red Hill Shaft

NR = Not recorded due to equipment glitch

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

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Appendix B.4 – Summary of Groundwater Analytical Results through November 4, 2022

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Appendix B.4.1 – GW Analytical Table_TPH and Fuel-Related Compounds

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

Non-bold text indicates non-detected value
Bold text indicates detected value, but below the Environmental Action Level (EAL).
Bold and orange shaded text indicates exceeds the Department of Health Tier 1 EAL.
Green text indicates results have completed third-party validation.
— = not analyzed or not applicable
µg/L = microgram per liter (same as parts per billion)
B = Analyte detected in associated method blank
CAS = Chemical Abstracts Service
a = Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b = Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
c = Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed.
d = The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D = Limit of Quantitation (LOQ) increased due to sample matrix.
J = estimated value
J- = estimated value, low bias
J+ = estimated value, high bias
J1 = estimated value due to discrepancies in meeting analyte-specific quality control criteria.
JM = estimated value, manually integrated
JMQ = estimated value, manually integrated with one or more quality control outside acceptance criteria
JQ = estimated value with one or more quality control outside of acceptance criteria
mg/L = milligram per liter
M = manually integrated
ND = Nondetect
no. = number
Q = one or more quality control outside of acceptance criteria
QC = quality control
U = nondetect value
UM = nondetect value, manually integrated
UMQ = nondetect value, manually integrated with one or more quality control outside acceptance criteria
UQ = nondetect value with one or more quality control outside of acceptance criteria
S = A documented laboratory error occurred during extraction, which contributed to low surrogate recovery. The sample was re-extracted; extraction prep hold time was exceeded by 4.83 days
O = Diluted out
-O = The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T = Analyte detected in the associated trip blank
TB = trip blank. Do not count for total sample number. Only done for quality control purposes.
TPH-g = total petroleum hydrocarbons-gasoline range organics
TPH-d = total petroleum hydrocarbons-diesel range organics
TPH-o = total petroleum hydrocarbons-residual range
R = Exclusion of data recommended. The sample result was affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria.
H = Sample was prepped or analyzed beyond the specified holding time

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
						CAS No.	PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
						Method	8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
						DOH Tier 1 EAL	300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		140		180		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	200		5.5		ND		560		978		180		160		140		ND		410		874		ND		330		ND		ND	
						Maximum After 8/6/2022	–		–		ND		–		–		200		–		–		94		–		–		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	<18.0	U	–		–		180	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	<18.0	U	–		–		210	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	<18.0	U	–		–		310	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	<18.0	UJ	–		–		210	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	<18.0	U	–		–		180	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	<18.0	U	–		–		200	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		160	J	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		200	J	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	<18.0	U	–		–		220	J	–		–		<300.0	U	–		–		320		–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	<18.0	U	–		–		230	J	–		–		<300.0	U	–		–		190	J	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	<18.0	U	–		–		210	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	<18.0	U	–		–		240	J	–		–		<300.0	U	–		–		170	J	–		–		150	J	–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	<18.0	U	–		–		160	J	–		–		150	J+	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	<18.0	U	–		–		200	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		210	J	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	<18.0	UJ	–		–		320		–		–		<300.0	U	–		–		410		–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	U	–		–		180	J+	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	<18.0	U	–		–		300	J	–		–		<300.0	UJ	–		–		<300	U	–		–		<300	UJ	–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	<18.0	U	–		–		260	J	–		–		160	J	–		–		200	J	–		–		230	J	–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–	R	–		–		230	J-	–		–		<300	UJ	–		–		180	J-	–		–		<300	UJ	–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	<18.0	U	–		–		<300	U	–		–		<300.0	U	–		–		<300	U	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	<18.0	U	–		–		230	J	–		–		<300.0	U	–		–		310	J	–		–		190	J+	–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	<18.0	U	–		–		320		–		–		<300	U	–		–		220	J	–		–		<300	U	–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	<18.0	U	–		–		240	J	–		–		<300.0	U	–		–		160	J+	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	<18.0	U	–		–		250	J	–		–		<300.0	U	–		–		220	J+	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	<18.0	U	–		–		280	J	–		–		<300	U	–		–		230	J	–		–		330	J+	–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	<18.0	UJ	–		–		250	J			–		<300	U			–		270	J			–		<300	UJ			–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	<18.0	U	–		–		240	J	–		–		<300.0	U	–		–		210	J+	–		–		<300	UJ	–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	<18.0	U	–		–		280	J	–		–		<300.0	U	–		–		310	J+	–		–		<300	UJ	–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		<300	UJ	–		–		<300.0	U	–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		260	J	–		–		<120	U	–		–		220	J	–		–		<140	U	–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	<18.0	U	–		–		220	J	–		–		<300.0	U	–		–		<300	UJ	–		–		<300	U	–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	14		–		–		400		–		–		<300.0	U	–		–		<300	U	–		–		<300.0	U	–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		390		–		–		80	J	–		–		140	J	–		–		<150	U	–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	29		–		–		560		–		–		<300.0	U	–		–		210	J+	–		–		<300.0	U	–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		490	J	–		–		120	J	–		–		180	J	–		–		<140	U	–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	<18.0	U	–		–		540		–		–		<300.0	UJ	–		–		240	J	–		–		<300.0	U	–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		420		–		–		63	J	–		–		190	J	–		–		<150	U	–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	22				–		550				–		<300.0	UJ			–		290	J			–		<300.0	UJ			–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		670		–		–		140	J	–		–		250	J	–		–		<140	U	–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	<18	U	–	–	–		430		–		–		<300	U	–		–		170	J+	–		–		<300.0	U	–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		400		–		–		78	J	–		–		230	J	–		–		<150	U	–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	38	J-	–	–	–		480	J	–		–		<300	U	–		–		150	J	–		–		<300	U	–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		470		–		–		78	J	–		–		220	J	–		–		<150	U	–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	29		–	–	–		430		–		–		<300	U	–	–	–		<300	U	–	–	–		<300	UJ	–	–	–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		880		–		–		110		–		–		710		–		–		<170	U	–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	200		–	–	–		510		–		–		<300	U	–	–	–		<300	U	–	–	–		<300	U	–	–	–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		530		–		–		100	J	–		–		200	J	–		–		<150	U	–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	16	J	–		–		550		–		–		<300	U	–	–	–		<320	UJ	–	–	–		<300	U	–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		480		–		–		110	J	–		–		220	J	–		–		<140	U	–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	<18	U	–		–		290	J	–		–		<300	U	–	–	–		290	J	–	–	–		210	J	–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		570		–		--		66	J	–		--		650		–		--		<150	U	–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		<8.7	U	–		–		290	J	–		--		55	J	–		–		230	J	–		--		<140	U	–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	–		<8.7	U	–		–		190	J	–		–		58	J	–				<150	U	–		–		<150	U	–	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	–		<8.7	U	–		–		250	J-	–		–		47	J-	–		–		150	J-	–		–		–	R	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	140	180	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	200	5.5	ND	560	978	180	160	140	ND	410	874	ND	330	ND	ND
						Maximum After 8/6/2022	–	–	ND	–	–	200	–	–	94	–	–	ND	–	–	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	–	3.3 J	–	–	290 J	–	–	45 J	–	–	380	–	–	<140 U	–
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	–	2.8 J	–	–	280 J	–		110 J	–		240 J	–		<140 U	–
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	–	3 J	–	–	210 J	–	–	42 J	–	–	210 J	–	–	<150 U	–
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	–	2.4 J	–	–	180 J	–	–	39 J	–	–	180 J	–	–	<150 U	–
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	–	2.4 J	–	–	140 J	–	–	<150 U	–	–	120 J	–	–	<150 U	–
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	–	3 J	–	–	160 J	–	–	<150 U	–	–	120 J	–	–	<150 U	–
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	–	2.5 J	–	–	160 J	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	–	<8.7 U	–	–	280 J	–	–	45 J	–	–	230 J	–	–	<150 U	–
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	–	<8.7 U	–	–	190 J	–	–	41 J	–	–	97 J	–	–	<150 U	–
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	–	5.5 J	–	–	390	–	–	42 J	–	–	97 J	–	–	<150 U	–
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	–	<8.7 U	–	–	300	–	–	34 J	–	–	190 J	–	–	<150 U	–
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	–	4.3 J	–	–	910	–	–	46 J	–	–	720	–	–	<140 U	–
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	–	3.8 J	–	–	270 J	–	–	38 J	–	–	170 J	–	–	<140 U	–
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	–	2.5 J	–	–	440	–	–	33 J	–	–	170 J	–	–	<140 U	–
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–	3.3 J	–	–	270 J	–	–	39 J	–	–	200 J	–	–	<140 U	–
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–	2.8 J	–	–	270 J	–	–	40 J	–	–	190 J	–	–	<150 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–	3.4 J	–	–	290 J	–	–	<140 U	–	–	100 J	–	–	<140 U	–
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–	3.4 J	–	–	310	–	–	<140 U	–	–	98 J	–	–	<140 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–	3 J	–	–	370	–	–	<140 U	–	–	170 J	–	–	<140 U	–
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–	3.2 J	–	–	470	–	–	<140 U	–	–	250 J	–	–	<140 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–	5.2 J	–	–	280 J	–	–	<140 U	–	–	150 J	–	–	<140 U	–
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–	5.2 J	–	–	290 J	–	–	<140 U	–	–	130 J	–	–	<140 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–	2.7 J	–	–	320	–	–	<140 U	–	–	150 J	–	–	<140 U	–
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–	2.4 J	–	–	290 J	–	–	<140 U	–	–	120 J	–	–	<140 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–	4.5 J	–	–	360	–	–	<140 U	–	–	280 J	–	–	<140 U	–
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–	3.9 J	–	–	230 J	–	–	<150 U	–	–	170 J	–	–	<150 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–	3.7 J	–	–	170 J	–	–	<150 U	–	–	190 J	–	–	<150 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–	2.33 J	–	–	226 J	–	–	38.5 J	–	–	112 J	–	–	<150 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–	<8.7 U	–	–	978	–	–	35.1 J	–	–	874	–	–	<150 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–	<8.7 U	–	–	194 J	–	–	56.1 J	–	–	<149 U	–	–	<149 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–	2.7 J	–	–	234 J	–	–	39 J	–	–	210 J	–	–	<150 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–	<8.7 U	–	–	226 J	–	–	44.8 J	–	–	255 J	–	–	<150 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	140	180	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	200	5.5	ND	560	978	180	160	140	ND	410	874	ND	330	ND	ND
						Maximum After 8/6/2022	–	–	ND	–	–	200	–	–	94	–	–	ND	–	–	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–	2.87 J	–	–	255 J	–	–	42.4 J	–	–	180 J	–	–	<143 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	3.16 J	–	–	553 J	–	–	53.5 J	–	–	604 J	–	–	– R	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–	2.8 J	–	–	253 J	–	–	44.6 J	–	–	185 J	–	–	<149 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–	<8.7 U	–	–	229 J	–	–	47.4 J	–	–	<150 U	–	–	<150 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–	3.68 J	–	–	496	–	–	<149 U	–	–	424	–	–	<149 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–	2.29 J	–	–	199 J	–	–	48 J	–	–	160 J	–	–	<149 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	–	–	<80 U	–	–	180	–	–	<100 U	–	–	<300 U	–	–	<300 U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	–	–	<80 U	–	–	200	–	–	94 J	–	–	<310 U	–	–	<310 U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	–	–	<80 UJ	–	–	160	–	–	<100 U	–	–	<310 U	–	–	<310 U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	–	–	<80 U	–	–	130	–	–	<100 U	–	–	<300 U	–	–	<300 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	670		ND		–		–		7.95	
						Maximum Before 8/7/2022	21100		ND		–		–		740	
						Maximum After 8/6/2022	2800		ND		–		–		480	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	990		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	4000		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	21100	J-	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	1700	J-	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	1200	J-	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	1300	J-	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	1200	J-	–	–	–	–	–	–	–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	1400		–	–	–	–	–	–	–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	2100		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	7500		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	--		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	780		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	690		<0.0049	U	–		–		550	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	770		<0.0050	U	–		–		490	

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Groundwater Sampling: RHMW01R

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	670		ND		–		–		7.95	
						Maximum Before 8/7/2022	21100		ND		–		–		740	
						Maximum After 8/6/2022	2800		ND		–		–		480	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	700		<0.0048	U	–		–		560	
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	730		<0.0049	U	–		–		570	
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	800		<0.0049	U	–		–		490	
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	680		<0.0049	U	–		–		560	
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	670	J+	<0.0048	U	–		–		580	
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	1600		<0.0049	U	–		–		380	
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	980		<0.005	U	–		–		570	
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	1100		<0.0049	U	–		–		350	
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	1100		<0.0049	U	–		–		540	
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	1200		<0.0049	UJ	–		–		560	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	1000		<0.0049	U	–		–		560	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	1200		<0.0048	U	–		–		480	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	1000		<0.0049	U	–		–		570	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	1700		<0.0049	U	–		–		620	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	1100		<0.0048	U	–		–		590	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	1200		<0.0049	U	–		–		570	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	901		<0.00481	U	–		–		567	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	1230		<0.00481	U	–		–		431	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	977		<0.0049	U	–		–		573	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	776		<0.00499	U	–		–		563	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	712		<0.0049	U	–		–		449	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
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						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	670		ND		–		–		7.95	
						Maximum Before 8/7/2022	21100		ND		–		–		740	
						Maximum After 8/6/2022	2800		ND		–		–		480	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	705		<0.005	U	–		–		558	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	754	J	–	R	–		–		577	J
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	1210		<0.0049	U	–		–		7.95	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	716		<0.00481	U	–		–		611	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	818		<0.00499	U	–		–		663	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	732		<0.0049	U	–		–		537	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	670	J	<0.0057	U	–		–		740	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	1500	J	<0.0057	U	–		–		480	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	1100	J	<0.0057	U	–		–		460	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	2800		<0.0058	U	–		–		420	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
						CAS No.	PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
						Method	8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
						DOH Tier 1 EAL	300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		12		35		1300		1200		2000		ND		ND		490		ND		260		180		ND		ND		ND	
						Maximum Before 8/7/2022	230		44.2		35		3600		5200		2000		1400		790		490		660		1300		180		250		130		ND	
						Maximum After 8/6/2022	–		–		39		–		–		4000		–		–		1100		–		–		350		–		–		370	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	100		–		–		1600		–		–		360		–		–		240	J	–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	37		–		–		1700		–		–		340		–		–		250	J	–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	<18.0	U	–		–		1500		–		–		360		–		–		170	J	–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	<18.0	UJ	–		–		1600		–		–		380		–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	80		–		–		1400		–		–		210	J	–		–		190	J	–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	81		–		–		1300		–		–		330		–		–		180	J	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	38		–		–		2000		–		–		290	J	–		–		300	J	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	27		–		–		1500		–		–		390		–		–		370		–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	33		–		–		1900		–		–		400		–		–		320		–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	60		–		–		1900		–		–		<300.0	U	–		–		240	J	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	47		–		–		2100		–		–		250	J	–		–		410		–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	23		–		–		2000		–		–		740		–		–		350		–		–		160	J	–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	52		–		–		1400		–		–		470		–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	130		–		–		1800		–		–		570		–		–		320		–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	170		–		–		1800		–		–		520		–		–		210	J	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	<18.0	U	–		–		3300		–		–		900		–		–		360		–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	<18.0	U	–		–		2700		–		–		660		–		–		530	J+	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	22		–		–		2800		–		–		740	J	–		–		<520	U	–		–		<300	UJ	–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	59		–		–		2400		–		–		530		–		–		440		–		–		250	J	–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	92	J-	–		–		2900	J-	–		–		680	J-	–		–		380	J-	–		–		<300	U	–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	<18.0	U	–		–		3000		–		–		690		–		–		480	J+	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	85		–		–		3300		–		–		340		–		–		470		–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	<18.0	U	–		–		2800		–		–		620		–		–		370		–		–		<300	U	–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	<18.0	U	–		–		3600		–		–		1400				–		560	J+	–		–		180	J+	–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	58		–		–		2700		–		–		1400	J+	–		–		660	J+	–		–		<300	UJ	–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	46	J+	–		–		2600		–		–		1100	J	–		–		470	J+	–		–		<300	UJ	–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	<18.0	U	–		–		3300		–		–		670		–		–		<470	UJ	–		–		<300	U	–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		2700		–		–		510	J-	–		–		380		–		–		<160	UJ	–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	64		–		–		2600		–		–		<300.0	U	–		–		390	J+	–		–		<300.0	U	–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		2400	J-	–		–		580	J-	–		–		380	J-	–		–		<140	UJ	–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	77		–		–		3000		–		–		480		–		–		290	J+	–		–		160	J+	–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		3100		–		–		750		–		–		380		–		–		<140	U	–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	<18.0	U	–		–		3000		–		–		1400	J+	–		–		320		–		–		170	J	–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		3500		–		–		580		–		–		430		–		–		<140	U	–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	130		–		–		2100		–		–		430		–		–		260	J	–		–		<300.0	U	–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		3000		–		–		790		–		–		300		–		–		<140	U	–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	86		–		–		3000		–		–		940		–		–		310	J+	–		–		<300.0	U	–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		3600		–		–		680		–		–		470		–		–		110	J	–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	71	J-	–		–		2400	J	–		–		1100	J+	–		–		340	J	–		–		190	J+	–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		2800		–		–		520		–		–		350		–		–		<140	U	–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	68		–		–		2500		–	–	–		620	–	–	–	–		<300	U	–	–	–		<300	U	–	–	–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		2400		–		--		670		–		–		540		–		–		130	J	–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	230		–		–		2300		–	–	–		510	–	–	–	–		200	J	–	–	–		150	J	–	–	–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		2500		–		–		520		–		–		330		–		–		<150	U	–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	78		–		–		2600		–	–	–		570	–	–	–	–		400	J+	–	–	–		<300	U	–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		3100		–		–		630		–		–		350		–		–		<150	U	–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	58		–		–		1700		–	–	–		430	–	–	–	–		410		–	–	–		160	J	–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		2300		–		–		420		–		–		1300		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		12	J	–		–		1700		–		–		410		–		–		340		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	–		14	J	–		–		1200		–		–		260	J	–		–		260	J	–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	–		21		–		–		3800		–		–		250	J	–		–		480		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	–		22		–		–		3600		–		–		320		–		–		480		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	–		26		–		–		4200		–		–		360		–		–		670		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	–		35		–		–		3600		–		–		<150	U	–		–		780		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	–		38		–		–		5200		–		–		410		–		–		430		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		39		–		–		3000		–		–		460		–		–		580		–		–		<140	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	12	35	1300	1200	2000	ND	ND	490	ND	260	180	ND	ND	ND
						Maximum Before 8/7/2022	230	44.2	35	3600	5200	2000	1400	790	490	660	1300	180	250	130	ND
						Maximum After 8/6/2022	–	–	39	–	–	4000	–	–	1100	–	–	350	–	–	370
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–	38	–	–	3200	–	–	<140 U	–	–	410	–	–	<140 U	–
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–	36	–	–	4100	–	–	<140 U	–	–	690	–	–	<140 U	–
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–	32	–	–	4100	–	–	<150 U	–	–	500	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–	36	–	–	3500	–	–	<140 U	–	–	860	–	–	<140 U	–
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–	27	–	–	3400	–	–	<150 U	–	–	390	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–	24	–	–	3700	–	–	<150 U	–	–	540	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–	32.6	–	–	3340	–	–	404	–	–	830	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–	30.1	–	–	4700	–	–	408	–	–	1100	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–	23.7	–	–	3600	–	–	546	–	–	862	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–	26	–	–	3780	–	–	342	–	–	702	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–	26.4	–	–	4410	–	–	578	–	–	582	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–	41.8	–	–	4100	–	–	600	–	–	1300	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	34.6 J	–	–	2870 J	–	–	416 J	–	–	573 J	–	–	– R	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–	31.4	–	–	3720	–	–	503	–	–	381	–	–	<152 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–	44.2	–	–	4230	–	–	525	–	–	532	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–	22.3	–	–	2660	–	–	458	–	–	781	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–	39.2	–	–	4050	–	–	518	–	–	637	–	–	<150 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	–	–	35 J	–	–	2000	–	–	490	–	–	180 J	–	–	<310 U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	–	–	<80 U	–	–	3200	–	–	1100	–	–	210 J	–	–	370
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	–	–	37 J	–	–	1900	–	–	440	–	–	<310 U	–	–	<310 U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	–	–	<80 U	–	–	4000	–	–	710	–	–	350 J	–	–	<310 U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	–	–	34 J	–	–	2900	–	–	510	–	–	260 J	–	–	<310 U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	–	–	39 J	–	–	2400	–	–	580	–	–	260 J	–	–	<310 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	2300		ND		–		–		2500	
						Maximum Before 8/7/2022	18000		ND		–		–		4200	
						Maximum After 8/6/2022	9200		ND		–		–		5400	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	4100	J	–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	5500		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	18000	J-	–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	4700		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	2500	J-	–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	3200	J-	–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	4800	J-	–	–	–	–	–	–	–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	2500		–	–	–	–	–	–	–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	2300		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	2300		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	3400		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	3500		<0.0049	U	–		–		2500	
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	5700		<0.0050	U	–		–		–	
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	7600		<0.0049	U	–		–		3000	
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	7200		<0.0049	U			–		3200	
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	9400		<0.0049	U	–		–		3200	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	11000		<0.0049	U	–		–		3800	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	4300		<0.0049	UJ	–		–		2900	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	2300		ND		–		–		2500	
						Maximum Before 8/7/2022	18000		ND		–		–		4200	
						Maximum After 8/6/2022	9200		ND		–		–		5400	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	5800		<0.0049	U	–		–		3400	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	7800		<0.0048	U	–		–		3500	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	8900		<0.0049	U	–		–		3300	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	10000		<0.0049	U	–		–		3700	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	6400		<0.005	U	–		–		3700	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	3300		<0.0049	U	–		–		3000	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	6790		<0.00481	U	–		–		3270	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	7410		<0.0049	U	–		–		3080	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	4980		<0.0049	U	–		–		3600	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	3740		<0.0049	U	–		–		2940	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	4040		<0.0049	U	–		–		3420	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	5860		<0.0049	U	–		–		4030	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	5700	J	–	R	–		–		3730	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	7250		<0.0049	U	–		–		3460	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	8160		<0.0049	U	–		–		4180	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	3620		<0.0049	U	–		–		3310	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	6210		<0.0049	U	–		–		3530	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	5300		<0.0058	U	–		–		4200	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	8600		<0.0059	U	–		–		4200	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	5100		<0.0058	U	–		–		2300	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	9200		<0.0058	U	–		–		5400	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	7300		<0.0058	U	–		–		3800	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	7400		<0.0058	U	–		–		3100	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
						CAS No.	PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
						Method	8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
						DOH Tier 1 EAL	300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		90.4		140		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		3.6		ND		430		613		140		ND		ND		ND		860		852		ND		550		148		ND	
						Maximum After 8/6/2022	–		–		ND		–		–		310		–		–		77		–		–		640		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	<18.0	U	–		–		200	J	–		–		<300.0	U	–		–		220	J	–		–		<300.0	U	–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	<18.0	U	–		–		170	J	–		–		<300.0	U	–		–		210	J	–		–		<300.0	U	–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	<18.0	U	–		–		160	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	<18.0	UJ	–		–		<300.0	U	–		–		–		–		–		<300.0	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	<18.0	U	–		–		180	J	–		–		<300.0	U	–		–		180	J	–		–		<300.0	U	–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	<18.0	U	–		–		180	J	–		–		<300.0	U	–		–		180	J	–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	U	–		–		330		–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	<18.0	U	–		–		330		–		–		<300.0	U	–		–		580		–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	<18.0	U	–		–		430		–		–		<300.0	U	–		–		840		–		–		350		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	<18.0	U	–		–		370		–		–		<300.0	U	–		–		550		–		–		200	J	–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	U	–		–		370		–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	<18.0	U	–		–		220	J	–		–		<300.0	U	–		–		330		–		–		200	J	–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	<18.0	U	–		–		150	J	–		–		<300.0	U	–		–		170	J	–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	<18.0	U	–		–		220	J	–		–		<300.0	U	–		–		350		–		–		150	J	–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	<18.0	U	–		–		160	J	–		–		<300.0	U	–		–		200	J	–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	<18.0	UJ	–		–		310	J	–		–		<300.0	U	–		–		660		–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	<18.0	U	–		–		250	J	–		–		<300.0	U	–		–		610	J+	–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	<18.0	U	–		–		390		–		–		<300.0	UJ	–		–		<570	U	–		–		<300	UJ	–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	U	–		–		490		–		–		250	J	–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	<18.0	UJ	–		–		430		–		–		<300	U	–		–		710		–		–		240	J	–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	<18.0	U	–		–		350	J+	–		–		<300.0	U	–		–		790	J+	–		–		260	J	–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		520		–		–		190	J+	–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	<18.0	U	–		–		410		–		–		<300	U	–		–		860		–		–		550		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	U	–		–		520	J+	–		–		190	J+	–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	<18.0	U	–		–		250	J	–		–		<300	U	–		–		700	J+	–		–		410	J+	–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	<18.0	U	–		–		350		–		–		<300.0	U	–		–		700	J+	–		–		440	J	–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	<18.0	U	–		–		360		–		–		<300.0	U	–		–		<530	UJ	–		–		<300	U	–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		160	J	–		–		<130	U	–		–		320	J	–		–		<160	U	–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	<18.0	U	–		–		350		–		–		<300.0	U	–		–		570	J+	–		–		<300.0	U	–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		220	J-	–		–		<120	UJ	–		–		720	J-	–		–		<150	UJ	–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	<18.0	U	–		–		350		–		–		<300.0	U	–		–		410	J+	–		–		150	J+	–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		180	J	–		–		<140	U	–		–		570		–		–		<140	U	–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	<18.0	U	–		–		250	J	–		–		<300.0	U	–		–		290	J	–		–		<300.0	U	–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		120	J	–		–		<120	U	–		–		330		–		–		<150	U	–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	UJ	–		–		410		–		–		<300.0	UJ	–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		150	J	–		–		<110	U	–		–		280	J	–		–		<140	U	–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	<18	U	–	–	–		170	J	–		–		<300.0	U	–		–		190	J+	–		–		<300.0	U	–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		160	J	–		–		<120	U	–		–		370		–		–		<150	U	–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	<18	U	–	–	–		180	J	–		–		<300	U	–		–		210	J	–		–		<300	U	–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		110	J	–		–		<120	U	–		–		250	J	–		–		<150	U	–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	<18	U	–	–	–		220	J	–	–	–		<300	U	–	–	–		<300	U	–	–	–		<300	UJ	–	–	–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		200	J	–		–		<120	U	–		–		310		–		–		<140	U	–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	<18	U	–	–	–		190	J	–	–	–		<300	U	–	–	–		220	J	–	–	–		220	J	–	–	–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		120	J	–		–		<120	U	–		–		350		–		–		<150	U	–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	<18	U	–		–		210	J	–	–	–		<300	U	–	–	–		330	J+	–	–	–		<300	U	–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		130	J	–		–		<120	U	–		–		290	J	–		–		<150	U	–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	<18	U	–		–		180	J	–	–	–		<300	U	–	–	–		310	J	–	–	–		160	J	–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		110	J	–		–		<120	U	–		–		230	J	–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		<8.7	U	–		–		120	J	–		–		<120	UJ	–		–		240	J	–		–		<150	UJ	–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	–		<8.7	U	–		–		160	J	–		–		<120	U	–		–		290	J	–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	–		<8.7	U	–		–		140	J-	–		–		<150	U	–		–		400	J-	–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	–		3.6	J	–		–		240	J	–		–		<150	U	–		–		430		–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	–		<8.7	U	–		–		96	J	–		–		<150	U	–		–		300	J	–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	–		<8.7	U	–		–		150	J	–		–		<150	U	–		–		300		–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	–		<8.7	U	–		–		360		–		–		<120	U	–		–		550		–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–		<8.7	U	–		–		160	J	–		–		<140	U	–		–		270	J	–		–		<140	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	90.4	140	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	3.6	ND	430	613	140	ND	ND	ND	860	852	ND	550	148	ND
						Maximum After 8/6/2022	–	–	ND	–	–	310	–	–	77	–	–	640	–	–	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–	<8.7 U	–	–	250 J	–	–	<140 U	–	–	370	–	–	<140 U	–
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–	<8.7 U	–	–	150 J	–	–	<140 U	–	–	<140 U	–	–	<140 U	–
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–	<8.7 U	–	–	110 J	–	–	<140 U	–	–	320	–	–	<140 U	–
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–	<8.7 U	–	–	210 J	–	–	<150 U	–	–	370	–	–	<150 U	–
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–	<8.7 U	–	–	150 J	–	–	<160 U	–	–	450	–	–	<160 U	–
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–	<8.7 U	–	–	200 J	–	–	<150 U	–	–	310	–	–	<150 U	–
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–	<8.7 U	–	–	90.4 J	–	–	<120 U	–	–	212 J	–	–	<150 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–	<8.7 U	–	–	129 J	–	–	<120 U	–	–	291 J	–	–	<150 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–	<8.7 U	–	–	171 J	–	–	<150 U	–	–	416	–	–	<150 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–	<8.7 U	–	–	337	–	–	<150 U	–	–	497	–	–	148 J	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–	<8.7 U	–	–	175 J	–	–	<149 U	–	–	413	–	–	<149 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–	<8.7 U	–	–	296 J	–	–	<150 U	–	–	446	–	–	<150 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	<8.7 U	–	–	613 J	–	–	– R	–	–	852 J	–	–	– R	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–	<8.7 U	–	–	274 J	–	–	<150 U	–	–	530	–	–	<150 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–	<8.7 U	–	–	574	–	–	<150 U	–	–	664	–	–	59.9 J	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–	<20 U	–	–	196 J	–	–	<149 U	–	–	334	–	–	<149 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–	<8.7 U	–	–	210 J	–	–	<121 U	–	–	338	–	–	<152 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	–	–	<80 U	–	–	140	–	–	<100 U	–	–	<310 U	–	–	<310 U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	–	–	<80 U	–	–	180	–	–	<100 U	–	–	210 J	–	–	<300 U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	–	–	<80 U	–	–	310	–	–	77 J	–	–	640	–	–	<310 U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	–	–	<80 UJ	–	–	210	–	–	<100 U	–	–	280 J	–	–	<300 U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	–	–	<80 U	–	–	180	–	–	<100 U	–	–	180 J	–	–	<310 U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	–	–	<80 U	–	–	130	–	–	<100 U	–	–	<300 U	–	–	<300 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	1380		ND		–		–		ND	
						Maximum Before 8/7/2022	19700		ND		–		–		0.786	
						Maximum After 8/6/2022	5000		ND		–		–		0.68	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	4600		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	7400		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	19700	J-	–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	2600		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	1700	J-	–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	1500	J-	–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	1700	J-	–	–	–	–	–	–	–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	2300		–	–	–	–	–	–	–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	1600		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	7900		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	1800	J	–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	2400		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	2600		<0.0050	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	2000		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	1900		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	1700		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	1800		<0.0048	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	1800		<0.0049	UJ	–		–		<1.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	1380		ND		–		–		ND	
						Maximum Before 8/7/2022	19700		ND		–		–		0.786	
						Maximum After 8/6/2022	5000		ND		–		–		0.68	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	1800		<0.0048	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	2800		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	2000		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	1600		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	3200		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	1700		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	1640		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	1380		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	1800		<0.0048	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	2970		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	2470		<0.0049	U	–		–		0.78	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	1790		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	1880	J	–	R	–		–		–	R
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	2320		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	6090	J	<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	2240		<0.00499	U	–		–		0.786	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	1980		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	1600		<0.0057	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	3700		<0.0058	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	5000		<0.0057	U	–		–		0.68	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	2500		<0.0058	U	–		–		0.65	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	1900		<0.0058	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	2200		<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
						CAS No.	PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
						Method	8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
						DOH Tier 1 EAL	300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
						Maximum Before 8/7/2022	–		30		ND		–		892		110		–		ND		ND		–		720		ND		–		ND		ND	
						Maximum After 8/6/2022	–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		47	J	–		–		<120	U	–		–		170	J	–		–		<150	U	–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	–		<8.7	U	–		–		280	J	–		–		<150	U	–		–		410		–		–		<150	U	–	
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	–		30		–		–		330		–		–		<140	U	–		–		550		–		–		<140	U	–	
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	–		<8.7	U	–		–		58	J	–		–		<150	U	–		–		240	J	–		–		<150	U	–	
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<140	U	–		–		<140	U	–		–		<140	U	–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		<8.7	U	–		–		120	J	–		–		<150	U	–		–		270	J	–		–		<150	U	–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		<8.7	U	–		–		47	J	–		–		<150	U	–		–		200	J	–		–		<150	U	–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		<8.7	U	–		–		892		–		–		<120	U	–		–		720		–		–		<150	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		<8.7	U	–		–		187	J	–		–		<119	U	–		–		376		–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		<8.7	U	–		–		211	J	–		–		<120	U	–		–		287	J	–		–		<150	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		<8.7	U	–		–		45.1	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		<8.7	U	–		–		534	J	–		–		<118	U	–		–		566	J	–		–		<147	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		<8.7	U	–		–		63	J	–		–		<120	U	–		–		<150	UJ	–		–		<150	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		<8.7	U	–		–		47.7	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		<8.7	U	–		–		44	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–	R	–		–		–	R	–		–		–		–		–		–	R	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–	R	–		–		–	R	–		–		–		–		–		–	R	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	ND	–	ND	ND	–	ND	ND
						Maximum Before 8/7/2022	–	30	ND	–	892	110	–	ND	ND	–	720	ND	–	ND	ND
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	–	–	<80 U	–	–	110	–	–	<100 U	–	–	<310 U	–	–	<310 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	220		ND		–		–		ND	
						Maximum Before 8/7/2022	5400		ND		–		–		4.62	
						Maximum After 8/6/2022	660		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	2100		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	5400		<0.0048	U	–		–		<1.2	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	3100		<0.0049	U	–		–		<1.2	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	690		<0.0048	U	–		–		<1.2	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	420	J	<0.005	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	390	J	<0.0049	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	400	J	<0.0048	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	220	J	<0.0049	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	300	J	<0.005	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	339	J	<0.0049	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	387	J	<0.0049	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	260	J	<0.0048	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	264	J	<0.0049	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	794		<0.0049	U	–		–		4.62	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	290	J	<0.00481	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	299	J	<0.0049	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	282	J	<0.00499	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	405	J	–	R	–		–		–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	220		ND		–		–		ND	
						Maximum Before 8/7/2022	5400		ND		–		–		4.62	
						Maximum After 8/6/2022	660		ND		–		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	795		<0.0048	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	370	J	<0.0049	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	390	J	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	460	J	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	660	J	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	580	J	<0.0057	U	–		–		<1.3	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
						CAS No.	PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
						Method	8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
						DOH Tier 1 EAL	300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		4		ND		190		250		ND		ND		ND		–		490		450		ND		290		ND		–	
						Maximum After 8/6/2022	–		–		ND		–		–		99		–		–		ND		–		–		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	<18.0	U			–		<300.0	U	–		–		<300.0	U	–		–		490	B	–		–		<300.0	U	–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		50	J	–		–		–		–		–		<150	U	–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	<18.0	U			–		<300.0	U			–		–	R			–		220	J+			–		280	J+			–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		56	J	–		–		<140	UJ	–		–		87	J	–		–		<140	UJ	–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	<18.0	U			–		190	J			–		<300.0	U			–		240	J			–		240	J+			–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		59	J	–		–		<120	U	–		–		110	J	–		–		<150	U	–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	<18.0	U			–		150	J			–		<300.0	UJ			–		250	J			–		<300.0	UJ			–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		91	J	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	<18	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		84	J	–		–		<120	U	–		–		130	J	–		–		<150	U	–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		130	J	–		–		<110	U	–		–		180	J	–		–		<140	U	–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–	–	–		<300	U	–		–		<300	UJ	–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		86	J	–		–		<120	U	–		–		110	J	–		–		<150	U	–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–	–	–		150	J	–		–		290	J	–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		81	J	–		–		<120	U	–		–		170	J	–		–		<140	U	–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–	–	–		<300	UJ	–		–		<300	U	–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		78	J	–		–		<110	U	–		–		150	J	–		–		<140	U	–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–	–	–		–		–		–		–		–		–	–	–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		<8.7	U	–		–		230	J	–		–		<120	U	–		–		450		–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		<8.7	U	–		–		39	J	–		–		<120	U	–		–		170	J	–		–		<140	U	–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		<8.7	U	–		–		250	J	–		–		<120	U	–		–		450		–		–		<140	U	–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	–		<8.7	U	–		–		60	J	–		–		<150	U	–		–		150	J	–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	–		<8.7	U	–		–		63	J	–		–		<150	U	–		–		150	J	–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	–		<8.7	U	–		–		37	J	–		–		<150	U	–		–		230	J	–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	–		4	J	–		–		64	J	–		–		<140	U	–		–		120	J	–		–		<140	U	–	
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	–		<8.7	U	–		–		41	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		<8.7	U	–		–		49	J	–		–		<140	U	–		–		180	J	–		–		<140	U	–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		<8.7	U	–		–		79	J	–		–		<140	U	–		–		140	J	–		–		<140	U	–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		<8.7	U	–		–		69	J	–		–		<140	U	–		–		<140	U	–		–		<140	U	–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		<8.7	U	–		–		69	J	–		–		<140	U	–		–		170	J	–		–		<140	U	–	

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Groundwater Sampling: RHMW05

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–
						Maximum Before 8/7/2022	ND	4	ND	190	250	ND	ND	ND	–	490	450	ND	290	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	99	–	–	ND	–	–	ND	–	–	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–	<8.7 U	–	–	170 J	–	–	<140 U	–	–	290 J	–	–	<140 U	–
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–	<8.7 U	–	–	60 J	–	–	<150 U	–	–	160 J	–	–	<150 U	–
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–	<8.7 U	–	–	72.2 J	–	–	<121 U	–	–	185 J	–	–	<152 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–	<8.7 U	–	–	59.5 J	–	–	<119 U	–	–	146 J	–	–	<149 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–	<8.7 U	–	–	187 J	–	–	<150 U	–	–	234 J	–	–	<150 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	– R	–	–	131 J	–	–	– R	–	–	129 J	–	–	– R	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–	<8.7 U	–	–	98.5 J	–	–	<152 U	–	–	<152 U	–	–	<152 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–	<8.7 U	–	–	46.8 J	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–	<8.7 U	–	–	41.1 J	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	–	–	<80 U	–	–	<100 UJ	–	–	–	–	–	<310 UJ	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	–	–	<80 UJ	–	–	99 J	–	–	<100 U	–	–	<310 U	–	–	<310 U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	–	–	<80 U	–	–	66 J	–	–	<100 U	–	–	<300 U	–	–	<300 U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

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Groundwater Sampling: RHMW05

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	130		ND		–		–		ND	
						Maximum Before 8/7/2022	16100		ND		–		–		ND	
						Maximum After 8/6/2022	710		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	510	J	–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	1100		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	16100		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	280	J	–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	280	J-	–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	360	J-	–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	130	J-	–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	560	J	–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	370	J	–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	1200		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	2400	J	–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	390	J	<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	380	J	<0.0050	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	570		<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	450	J	<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	910		<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	560		<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	410	J	<0.0049	UJ	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	470	J	<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	410	J	<0.0048	U	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	590		<0.0049	U	–		–		<1.2	U

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Groundwater Sampling: RHMW05

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	130		ND		–		–		ND	
						Maximum Before 8/7/2022	16100		ND		–		–		ND	
						Maximum After 8/6/2022	710		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	420	J	<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	630		<0.0048	U	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	400	J	<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	735		<0.00481	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	342	J	<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	312	J	<0.0048	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	369	J	<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	631		<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	471	J	<0.0048	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	409	J	–	R	–		–		–	R
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	1110		<0.00499	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	450	J	<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	415	J	<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	325	J	<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	690	J	<0.0058	U	–		–		<1.3	UJ
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	710	J	<0.0058	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	430	J	<0.0057	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	630	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	3.3	ND	–	630	ND	–	43	–	–	1400	ND	–	160	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–	–	–	–	<150 U	–	–	<120 U	–	–	150 J	–	–	<150 U	–
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	–	<8.7 U	–	–	630	–	–	43 J	–	–	1400	–	–	160 J	–
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	–	<8.7 U	–	–	63 J	–	–	<150 U	–	–	130 J	–	–	<150 U	–
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	–	3.3 J	–	–	160 J	–	–	<150 U	–	–	340	–	–	<150 U	–
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	–	<8.7 U	–	–	91 J-	–	–	–	–	–	460 J-	–	–	–	–
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<120 U	–	–	90 J	–	–	<150 U	–
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<110 U	–	–	<140 U	–	–	<140 U	–
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–	<8.7 U	–	–	82 J	–	–	<140 U	–	–	88 J	–	–	<140 U	–
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–	<8.7 U	–	–	<147 U	–	–	–	–	–	<147 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–	<8.7 U	–	–	<141 U	–	–	<113 U	–	–	<141 U	–	–	<141 U	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–	<8.7 U	–	–	76.3 J	–	–	<120 U	–	–	<150 U	–	–	<150 U	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	3.3	ND	–	630	ND	–	43	–	–	1400	ND	–	160	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–	<8.7 U	–	–	**64.2 J**	–	–	<119 U	–	–	**151 J**	–	–	<149 U	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–	<8.7 U	–	–	**288 J**	–	–	<119 U	–	–	**447**	–	–	<149 U	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	1760		ND		–		–		13	
						Maximum After 8/6/2022	520		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	430	J	–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<500	U	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	830		<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	480	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	420	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<500	U	<0.0048	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	370	J	<0.005	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	330	J	<0.0048	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	300	J	<0.0047	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	210	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	170	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	350	J	<0.005	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	380	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	245	J	<0.00481	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	204	J	<0.0049	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	371	J	<0.00481	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	198	J	<0.0049	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	553		<0.0049	U	–		–		4.63	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	247	J	<0.0049	U	–		–		<1.16	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	1760		ND		–		–		13	
						Maximum After 8/6/2022	520		ND		–		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	348	J	<0.0049	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	222	J	<0.0049	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	283	J	<0.00481	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	1760		<0.0049	U	–		–		13	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	465	J	<0.0049	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	430	J	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	520	J	<0.0057	U	–		–		<1.3	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Groundwater Sampling: RHMW08

						Analyte	TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
						CAS No.	PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
						Method	8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
						DOH Tier 1 EAL	300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
						Maximum Before 8/7/2022	–		12.9		ND		–		1430		ND		–		ND		–		–		979		ND		–		ND		–	
						Maximum After 8/6/2022	–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–	–	–		–		–	–	–	–	–		–	–	–	–	–		–	–	–	–	–		–	–	–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		<8.7	U	–		–		280	J-	–		–		–	R	–		–		240	J-	–		–		–	R	–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		<8.7	U	–		–		70	J-	–		–		–	R	–		–		–	R	–		–		–	R	–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		<8.7	U	–		–		350		–		–		<120	U	–		–		670		–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	–		<8.7	U	–		–		420		–		–		<120	U	–		–		480		–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	–		<8.7	U	–		–		450		–		–		<120	U	–		–		650		–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	–		<8.7	U	–		–		54	J	–		–		<140	U	–		–		140	J	–		–		<140	U	–	
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	–		<8.7	U	–		–		69	J	–		–		<140	U	–		–		160	J	–		–		<140	U	–	
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	–		<8.7	U	–		–		250	J	–		–		<120	U	–		–		510		–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	–		<8.7	U	–		–		41	J	–		–		<140	U	–		–		130	J	–		–		<140	U	–	
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	–		<8.7	U	–		–		110	J	–		–		<150	U	–		–		190	J	–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	–		<8.7	U	–		–		67	J	–		–		<120	U	–		–		160	J	–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<140	U	–		–		100	J	–		–		<140	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<140	U	–		–		120	J	–		–		<140	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		<8.7	U	–		–		70	J	–		–		<140	U	–		–		230	J	–		–		<140	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<140	U	–		–		<140	U	–		–		<140	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		<8.7	U	–		–		44	J	–		–		<150	U	–		–		130	J	–		–		<150	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		<8.7	U	–		–		47	J	–		–		<150	U	–		–		150	J	–		–		<150	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		117	J	–		–		<150	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		<8.7	U	–		–		1430		–		–		<118	U	–		–		920		–		–		<147	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		12.9	J	–		–		800		–		–		<150	U	–		–		979		–		–		<150	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		<8.7	U	–		–		49	J	–		–		<149	U	–		–		81.6	J	–		–		<149	U	–	

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: Groundwater Sampling: RHMW08

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	12.9	ND	–	1430	ND	–	ND	–	–	979	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–	<8.7 U	–	–	143 J	–	–	<115 U	–	–	287 J	–	–	<144 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–	<8.7 U	–	–	86.7 J	–	–	<119 U	–	–	151 J	–	–	<149 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–	<8.7 U	–	–	43.3 J	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Groundwater Sampling: RHMW08

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	2300		ND		–		–		66.5	
						Maximum After 8/6/2022	1000		ND		–		–		0.73	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	420	J	–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	530	J	–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	1300		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	750		<0.0049	U	–		–		0.71	J
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	990		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	2300		<0.0048	U	–		–		0.73	J
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	1300		<0.0050	U	–		–		10	
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	1100		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	680	J+	<0.0048	U	–		–		<1.2	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	730		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	630		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	630		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	580		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	530		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	570		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	1100		<0.0048	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	723		<0.0049	U	–		–		44.3	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	536		<0.0049	U	–		–		1.66	J
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	1440		<0.00481	U	–		–		6.09	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	922		<0.0049	U	–		–		1.6	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Groundwater Sampling: RHMW08

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	2300		ND		–		–		66.5	
						Maximum After 8/6/2022	1000		ND		–		–		0.73	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	614		<0.0049	U	–		–		1.12	J
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	573		<0.0049	U	–		–		66.5	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	577		<0.0049	U	–		–		<1.16	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	636		<0.0049	U	–		–		<1.16	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	567		<0.0049	U	–		–		<1.16	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	584		<0.0049	U	–		–		<1.16	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	656		<0.0049	U	–		–		<1.16	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	470	J	<0.0058	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	520	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	1000	J	<0.0057	U	–		–		0.73	J
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	690	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	730	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	2.12	ND	–	680	ND	–	ND	–	–	1400	ND	–	110	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–	–	–	–	<140 U	–	–	<120 U	–	–	<140 U	–	–	<140 U	–
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	–	<8.7 U	–	–	680 J-	–	–	<120 UJ	–	–	1400 J-	–	–	110 J-	–
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	–	<8.7 U	–	–	280 J	–	–	<140 U	–	–	490	–	–	73 J	–
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<120 U	–	–	140 J	–	–	<140 U	–
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	250 J	–	–	<150 U	–
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	160 J	–	–	<150 U	–
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–	<8.7 U	–	–	430	–	–	<140 U	–	–	480	–	–	<140 U	–
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–	<8.7 U	–	–	70 J	–	–	<140 U	–	–	170 J	–	–	<140 U	–
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–	<8.7 U	–	–	37 J	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–	<8.7 U	–	–	51 J	–	–	<150 U	–	–	140 J	–	–	<150 U	–
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–	<8.7 U	–	–	70 J	–	–	<148 U	–	–	115 J	–	–	<148 U	–
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–	<8.7 U	–	–	<147 U	–	–	<147 U	–	–	<147 U	–	–	<147 U	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–	<8.7 U	–	–	46.5 J	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–	<8.7 U	–	–	166 J	–	–	<120 U	–	–	271 J	–	–	<150 U	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–	<8.7 U	–	–	172 J	–	–	<141 U	–	–	172 J	–	–	<141 U	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–	<8.7 U	–	–	156 J	–	–	<144 U	–	–	434	–	–	<144 U	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–	<8.7 U	–	–	44.1 J	–	–	<149 U	–	–	236 J	–	–	<149 U	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–	2.12 J	–	–	<149 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	–	–	<80 U	–	–	<110 U	–	–	–	–	–	<330 U	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	–	–	<80 U	–	–	<100 UJ	–	–	–	–	–	<300 UJ	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	9100		ND		–		–		3.1	
						Maximum After 8/6/2022	540		ND		–		–		3	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	220	J	–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	1100		<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	9100		<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	350	J	<0.0047	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	660		<0.0048	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	770		<0.005	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	260	J	<0.0048	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	880		<0.0048	UJ	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	260	J	<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	250	J	<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	280	J	<0.005	U	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	455	J	<0.0049	U	–		–		3.1	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	245	J	<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	286	J	<0.00481	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	401	J	<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	1540		<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	1090		<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	1300		<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	242	J	<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	314	J	<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	255	J	<0.00481	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	427	J	<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	540	J	<0.0057	U	–		–		3	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	490	J	<0.0057	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	480	J	<0.0061	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	2.11	ND	–	510	ND	–	ND	–	–	620	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–	–	–	–	220 J-	–	–	<110 UJ	–	–	170 J-	–	–	<140 UJ	–
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–	–	–	–	230 J-	–	–	<110 UJ	–	–	160 J-	–	–	<140 UJ	–
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	–	<8.7 U	–	–	<160 U	–	–	<120 U	–	–	100 J	–	–	<160 U	–
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	–	<8.7 U	–	–	510	–	–	<150 U	–	–	620	–	–	<150 U	–
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–	<8.7 U	–	–	49 J	–	–	<110 U	–	–	140 J	–	–	<140 U	–
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–	<8.7 U	–	–	97 J	–	–	<140 U	–	–	140 J	–	–	<140 U	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–	<8.7 U	–	–	140 J	–	–	<140 U	–	–	290 J	–	–	<140 U	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<140 U	–	–	<140 U	–	–	<140 U	–
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	<140 U	–	–	<140 U	–	–	<140 U	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–	<8.7 U	–	–	170 J	–	–	<140 U	–	–	250 J	–	–	<140 U	–
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–	<8.7 U	–	–	57 J	–	–	<140 U	–	–	190 J	–	–	<140 U	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	<140 U	–	–	<140 U	–	–	<140 U	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–	<8.7 U	–	–	<150 U	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–	<8.7 U	–	–	248 J	–	–	<143 U	–	–	372	–	–	<143 U	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–	– R	–	–	– R	–	–	–	–	–	– R	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–	<8.7 U	–	–	291 J	–	–	<120 U	–	–	453	–	–	<150 U	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–	2.11 J	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–	<8.7 U	–	–	48.8 J	–	–	<119 U	–	–	<149 U	–	–	<149 U	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	2.11	ND	–	510	ND	–	ND	–	–	620	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	5300		ND		–		–		0.72	
						Maximum After 8/6/2022	390		ND		–		–		2	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	5300		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	460	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	390	J	<0.005	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	300	J	<0.0048	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	320	J	<0.005	U	–		–		0.72	J
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	370	J	<0.0049	U	–		–		0.72	J
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	350	J	<0.0048	U	–		–		<1.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	340	J	<0.005	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	368	J	<0.0049	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	252	J	<0.0047	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	250	J	<0.0048	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	266	J	<0.00499	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	279	J	<0.00499	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	284	J	<0.0049	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	284	J	–	R	–		–		–	R
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	277	J	<0.0049	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	294	J	<0.0049	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	300	J	<0.0049	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	276	J	<0.0049	U	–		–		<1.16	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	5300		ND		–		–		0.72	
						Maximum After 8/6/2022	390		ND		–		–		2	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<1000	U	<0.0057	U	–		–		**2**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	**390**	**J**	<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	–	–	ND	–	–	ND	–	–	ND	–	–	ND	–
						Maximum Before 8/7/2022	–	2.8	–	–	1000	–	–	ND	–	–	682	–	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	–	2.8 J	–	–	44 J	–	–	<150 U	–	–	140 J	–	–	<150 U	–
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	–	<8.7 U	–	–	200 J	–	–	<120 U	–	–	300	–	–	<150 U	–
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	–	<8.7 U	–	–	360	–	–	<140 U	–	–	480	–	–	<140 U	–
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	130 J	–	–	<150 U	–
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–	BROKEN	–	–	360	–	–	<140 U	–	–	460	–	–	<140 U	–
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<140 U	–	–	110 J	–	–	<140 U	–
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–	<8.7 U	–	–	44 J	–	–	<140 U	–	–	150 J	–	–	<140 U	–
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–	<8.7 U	–	–	41 J	–	–	<150 U	–	–	110 J	–	–	<150 U	–
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–	<8.7 U	–	–	51.3 J	–	–	<120 U	–	–	156 J	–	–	<150 U	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–	<8.7 U	–	–	135 J	–	–	<118 U	–	–	294 J	–	–	<148 U	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–	<8.7 U	–	–	1000	–	–	<120 U	–	–	682	–	–	<150 U	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–	<8.7 U	–	–	43.7 J	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–	<8.7 U	–	–	45.1 J	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	1500		ND		–		–		4	
						Maximum After 8/6/2022	570		ND		–		–		1.6	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	390	J	<0.0050	U	–		–		1.8	J
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	400	J	<0.0050	U	–		–		2.1	
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	370	J	<0.0049	U	–		–		4	
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	410	J	<0.0047	U	–		–		1.3	J
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	1500		<0.0049	U	–		–		0.93	J
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<500	U	<0.0049	U	–		–		2.3	
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	550		BROKEN		–		–		BROKEN	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	370	J	<0.005	U	–		–		1.8	J
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	360	J	<0.0048	U	–		–		1.2	J
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	340	J	<0.005	U	–		–		1.7	J
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	290	J	<0.0049	U	–		–		0.75	J
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	370	J	<0.0049	U	–		–		1.4	J
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	370	J	<0.0049	U	–		–		2.7	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	332	J	<0.00481	U	–		–		1.78	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	309	J	<0.00481	U	–		–		0.752	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	342	J	<0.00481	U	–		–		1.79	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	307	J	<0.00481	U	–		–		1.69	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	314	J	<0.0049	U	–		–		<1.16	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	328	J	<0.0049	U	–		–		1.29	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	337	J	<0.00481	U	–		–		2.03	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	342	J	<0.00499	U	–		–		0.875	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	310	J	<0.00481	U	–		–		1.14	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	338	J	<0.00481	U	–		–		1.48	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	349	J	<0.0049	U	–		–		<1.16	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	410	J	<0.0058	U	–		–		<1.3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<1000	U	<0.0058	U	–		–		0.63	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	380	J	<0.0057	U	–		–		1.6	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	570	J	<0.0057	U	–		–		0.79	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	65.2	ND	–	ND	–	–	216	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	–	<8.7 U	–	–	39 J	–	–	<120 U	–	–	<140 U	–	–	<140 U	–
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	–	<8.7 U	–	–	50 J	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–	<8.7 U	–	–	40 J	–	–	<140 U	–	–	130 J	–	–	<140 U	–
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<119 U	–	–	216 J	–	–	<149 U	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–	<8.7 U	–	–	46 J	–	–	<119 U	–	–	155 J	–	–	<149 U	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–	<8.7 U	–	–	65.2 J	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–	<8.7 U	–	–	<141 U	–	–	–	–	–	<141 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	630		ND		–		–		94	
						Maximum After 8/6/2022	600		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	530		<0.0049	U	–		–		94	
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	630		<0.0048	U	–		–		2.7	
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	350	J	<0.0049	U	–		–		15	
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	430	J	<0.0049	U	–		–		1.4	J
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	490	J	<0.0049	U	–		–		<1.2	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<500	U	<0.0049	U	–		–		<1.2	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	500	J	<0.0049	UJ	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	400	J	<0.0048	U	–		–		0.82	J
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	370	J	<0.0048	U	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	330	J	<0.0049	U	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	330	J	<0.0049	U	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	400	J	<0.0049	U	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	400	J	<0.0048	U	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	373	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	348	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	412	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	301	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	312	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	293	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	324	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	359	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	351	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	354	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	379	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	440	J	<0.0058	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	400	J	<0.0059	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	440	J	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	540	J	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	600	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	–	–	ND	–	–	ND	–	–	ND	–	–	ND	–
						Maximum Before 8/7/2022	–	139	–	–	640	–	–	ND	–	–	620	–	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–	–	–	–	<150 UJ	–	–	–	–	–	<150 UJ	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	–	139	–	–	640	–	–	<120 U	–	–	620	–	–	<150 U	–
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	–	<8.7 U	–	–	50 J	–	–	<150 U	–	–	210 J	–	–	<150 U	–
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	–	<8.7 U	–	–	38 J	–	–	<110 U	–	–	<140 U	–	–	<140 U	–
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	–	<8.7 U	–	–	100 J	–	–	<120 U	–	–	200 J	–	–	<150 U	–
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–	<8.7 U	–	–	38 J	–	–	<147 U	–	–	164 J	–	–	<147 U	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–	<8.7 U	–	–	<147 U	–	–	–	–	–	<147 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–	<8.7 U	–	–	<141 U	–	–	–	–	–	<141 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–	<8.7 U	–	–	<142 U	–	–	–	–	–	<142 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–	– R	–	–	– R	–	–	–	–	–	– R	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	4600		ND		–		–		ND	
						Maximum After 8/6/2022	680		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	200	J	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	850		<0.0049	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	4600		<0.0050	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	240	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	250	J	<0.0048	U	–		–		<1.2	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	240	J	<0.0047	U	–		–		<1.2	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<500	U	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	250	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	240	J	<0.0048	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	240	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	250	J	<0.005	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	270	J	<0.005	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	250	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	254	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	210	J	<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	195	J	<0.0048	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	324	J	<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	1280		<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	278	J	<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	223	J	–	R	–		–		–	R
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	212	J	<0.00499	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	212	J	<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	281	J	<0.00481	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	207	J	<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	680	J	<0.0057	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	440	J	<0.0057	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	207	ND	–	ND	–	–	317	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–	<8.7 U	–	–	– R	–	–	– R	–	–	– R	–	–	– R	–
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–	<8.7 U	–	–	46 J	–	–	<120 U	–	–	87 J	–	–	<140 U	–
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	–	<8.7 U	–	–	<170 U	–	–	–	–	–	<170 U	–	–	–	–
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	98 J	–	–	<150 U	–
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–	<8.7 U	–	–	41 J	–	–	<140 U	–	–	210 J	–	–	<140 U	–
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–	<8.7 U	–	–	100 J	–	–	<150 U	–	–	220 J	–	–	<150 U	–
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–	<8.7 U	–	–	128 J	–	–	<147 U	–	–	317	–	–	<147 U	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–	<8.7 U	–	–	<147 U	–	–	–	–	–	<147 U	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–	<8.7 U	–	–	41.9 J	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–	<8.7 U	–	–	<142 U	–	–	–	–	–	<142 U	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	207	ND	–	ND	–	–	317	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–	<8.7 U	–	–	53.4 J	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–	<8.7 U	–	–	207 J	–	–	<149 U	–	–	54.4 J	–	–	<149 U	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	–	–	<80 U	–	–	<99 U	–	–	–	–	–	<300 U	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	4500		ND		–		–		ND	
						Maximum After 8/6/2022	650		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	4500		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	240	J	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	190	J	<0.0043	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	2600		<0.0050	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	250	J	<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	1600		<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	1400		<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	290	J	<0.0048	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	240	J	<0.0048	UJ	–		–		BROKEN	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	250	J	<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	270	J	<0.005	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	340	J	<0.005	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	248	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	231	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	213	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	245	J	<0.00481	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	393	J	<0.00499	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	241	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	4500		ND		–		–		ND	
						Maximum After 8/6/2022	650		ND		–		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	251	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	273	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	3030		<0.005	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	309	J	<0.0048	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	253	J	<0.00481	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	650	J	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	560	J	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	420	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	310	ND	–	ND	–	–	390	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–	–	–	–	73 J	–	–	<120 U	–	–	320	–	–	<140 U	–
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	–	<8.7 U	–	–	310	–	–	<110 U	–	–	390	–	–	<140 U	–
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–	<8.7 U	–	–	41 J	–	–	<140 U	–	–	<140 U	–	–	<140 U	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<140 U	–	–	110 J	–	–	<140 U	–
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–	<8.7 U	–	–	38 J	–	–	<140 U	–	–	130 J	–	–	<140 U	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–	<8.7 U	–	–	140 J	–	–	<150 U	–	–	280 J	–	–	<150 U	–
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	93 J	–	–	<150 U	–
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–	<8.7 U	–	–	<147 U	–	–	–	–	–	<147 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–	<8.7 U	–	–	<143 U	–	–	–	–	–	<143 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	– R	–	–	243 J	–	–	– R	–	–	364 J	–	–	– R	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–	<8.7 U	–	–	<149 U	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–	<8.7 U	–	–	<152 U	–	–	<121 U	–	–	<152 U	–	–	<152 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	310	ND	–	ND	–	–	390	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	–	–	<80 U	–	–	<100 UJ	–	–	–	–	–	<310 UJ	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	500		ND		–		–		ND	
						Maximum After 8/6/2022	430		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	210	J	–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<500	U	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	190	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	180	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	280	J	<0.005	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	220	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	240	J	<0.005	U	–		–		<1.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	270	J	<0.0048	U	–		–		<1.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	500		<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	200	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	271	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	217	J	<0.0049	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	206	J	<0.0048	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	212	J	<0.0049	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	222	J	<0.00499	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	271	J	<0.0049	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	217	J	–	R	–		–		–	R
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	252	J	<0.00499	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	234	J	<0.0049	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	249	J	<0.0048	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	204	J	<0.0049	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	380	J	<0.0058	U	–		–		<1.3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	500		ND		–		–		ND	
						Maximum After 8/6/2022	430		ND		–		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	**430**	J	<0.0058	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	**400**	J	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	370	–	ND	ND	–	ND	460	–	ND	ND
						Maximum Before 8/7/2022	–	5.19	ND	–	202	370	–	ND	ND	–	495	460	–	ND	ND
						Maximum After 8/6/2022	–	–	ND	–	–	100	–	–	76	–	–	ND	–	–	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–	5.19 J	–	–	202 J	–	–	<119 U	–	–	495	–	–	<149 U	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–	<8.7 U	–	–	58.9 J	–	–	<149 U	–	–	99 J	–	–	<149 U	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–	<8.7 U	–	–	113 J	–	–	<120 U	–	–	237 J	–	–	<150 U	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	–	–	<80 U	–	–	370	–	–	<100 U	–	–	460	–	–	<310 U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	–	–	<80 U	–	–	100 J	–	–	76 J	–	–	<300 U	–	–	<300 U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	754		ND		–		–		ND	
						Maximum Before 8/7/2022	13000		ND		–		–		ND	
						Maximum After 8/6/2022	1400		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	1460		<0.00481	U	–		–		<1.16	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	806		<0.005	U	–		–		<1.16	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	868		<0.0049	U	–		–		<1.16	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	754		<0.0049	U	–		–		<1.16	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	1000		<0.0049	U	–		–		<1.16	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	13000		<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	1400	J	<0.0058	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	490	J	<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	680	J	<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	710	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When the

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screenir

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. Th

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	2.3	ND	–	630	ND	–	89	–	–	588	ND	–	180	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–	–	–	–	82 J	–	–	<120 U	–	–	380	–	–	<150 U	–
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	–	<8.7 U	–	–	72 J	–	–	<150 U	–	–	160 J	–	–	<150 U	–
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	–	<8.7 U	–	–	260 J	–	–	89 J	–	–	540	–	–	89 J	–
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	–	<8.7 U	–	–	48 J	–	–	<120 U	–	–	170 J	–	–	<150 U	–
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	–	2.3 J	–	–	43 J	–	–	<120 U	–	–	170 J	–	–	130 J	–
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<110 U	–	–	<140 U	–	–	<140 U	–
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	–	2.3 J	–	–	170 J	–	–	<110 U	–	–	490	–	–	180 J	–
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<110 U	–	–	110 J	–	–	<140 U	–
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<110 U	–	–	<140 U	–	–	<140 U	–
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<140 U	–	–	<140 U	–	–	<140 U	–
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–	<8.7 U	–	–	100 J	–	–	<140 U	–	–	63 J	–	–	<140 U	–
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–	<8.7 U	–	–	258 J	–	–	<148 U	–	–	411	–	–	<148 U	–
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–	<8.7 U	–	–	<147 U	–	–	<147 U	–	–	<147 U	–	–	<147 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–	<8.7 U	–	–	118 J	–	–	<141 UJ	–	–	308 J	–	–	72.7 J	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–	<8.7 U	–	–	94.8 J	–	–	<150 U	–	–	218 J	–	–	115 J	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	2.3	ND	–	630	ND	–	89	–	–	588	ND	–	180	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–	<8.7 U	–	–	45.2 J	–	–	<150 U	–	–	99.7 J	–	–	<150 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–	<8.7 U	–	–	630	–	–	<119 U	–	–	588	–	–	<149 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	3100		ND		–		–		ND	
						Maximum After 8/6/2022	490		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	580	J	–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	3100		<0.0047	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	740		<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<500	U	<0.0048	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	2200		<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	320	J	<0.005	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	730		<0.005	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	700		<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	320	J	<0.005	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	280	J	<0.0048	UJ	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	240	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	260	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	330	J	<0.005	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	450	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	255	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	520		<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	326	J	<0.00481	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	248	J	<0.00481	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	577		<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	408	J	<0.0049	U	–		–		<1.16	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	3100		ND		–		–		ND	
						Maximum After 8/6/2022	490		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	432	J	<0.00481	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	285	J	<0.00499	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	525		<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	295	J	<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	582		<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	390	J	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	490	J	<0.0057	U	–		–		<1.3	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	430	J	<0.0059	U	–		–		<1.3	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	450	J	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	430	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
						CAS No.	PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
						Method	8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
						DOH Tier 1 EAL	300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		159		ND		ND		142000		ND		ND		140000		–		ND		580		ND		ND		230		–	
						Maximum After 8/6/2022	–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300	UJ	–		–		<300	UJ	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		<–	U	–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	<18.0	U			–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U			–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		<140	U	–		–		<140	U	–		–		170	J	–		–		<140	U	–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	<18.0	U			–		–		–		–		–		–		–		–		–		–		–				–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	<18	U	–		–		<300	U	–	–	–		<300	U	–		–		<300	U	–		–		<300	UJ	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		43	J	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	<90	U	–		–		<300	U	–	–	–		<300	U	–		–		<300	U	–		–		<300	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		87	J	–		–		<120	U	–		–		370		–		–		<140	U	–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	<18	U	–		–		<300	U	–	–	–		<300	U	–		–		<300	UJ	–		–		<300	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		2.8	J	–		–		640		–		–		<120	U	–		–		580		–		–		<150	U	–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		159		–		–		142000		–		–		140000		–		–		530		–		–		<1500	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	–		<8.7	U	–		–		150	J	–		–		60	J	–		–		100	J	–		–		<140	U	–	
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	–		44		–		–		1800		–		–		1400		–		–		180	J	–		–		<150	U	–	
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	–		47		–		–		1500		–		–		1300		–		–		180	J	–		–		100	J	–	
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	–		59		–		–		2400		–		–		1800		–		–		540		–		–		230	J	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	–		44		–		–		1200		–		–		730		–		–		170	J	–		–		98	J	–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	–		<8.7	U	–		–		250	J	–		–		87	J	–		–		170	J	–		–		<140	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	–		3.7	J	–		–		1100		–		–		680		–		–		320		–		–		220	J	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	–		18	J	–		–		930		–		–		480		–		–		300	J	–		–		200	J	–	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	–		<8.7	U	–		–		150	J	–		–		<140	U	–		–		<140	U	–		–		<140	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	–		46		–		–		2300		–		–		1800		–		–		580		–		–		150	J	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	–		92		–		–		1600		–		–		960		–		–		290	J	–		–		150	J	–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	–		<8.7	U	–		–		150	J	–		–		<120	U	–		–		170	J	–		–		<150	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	–		18	J	–		–		1500		–		–		790		–		–		280	J	–		–		150	J	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	–		20		–		–		1600		–		–		900		–		–		320		–		–		180	J	–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	–		<8.7	U	–		–		270	J	–		–		46	J	–		–		130	J	–		–		<140	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	–		<8.7	U	–		–		310		–		–		74	J	–		–		240	J	–		–		<150	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	–		2.6	J	–		–		370		–		–		74	J	–		–		340		–		–		120	J	–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	–		<8.7	U	–		–		590		–		–		<120	U	–		–		440		–		–		<150	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	–		<8.7	U	–		–		690		–		–		390		–		–		220	J	–		–		<150	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	–		<8.7	U	–		–		91	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–
						Maximum Before 8/7/2022	ND	159	ND	ND	142000	ND	ND	140000	–	ND	580	ND	ND	230	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	–	<8.7 U	–	–	190 J	–	–	130 J	–	–	130 J	–	–	<140 U	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	–	<8.7 U	–	–	130 J	–	–	30 J	–	–	280 J	–	–	<140 U	–
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	–	2.1 J	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	–	<8.7 U	–	–	49 J	–	–	<110 U	–	–	180 J	–	–	<140 U	–
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–	<8.7 U	–	–	420	–	–	<140 U	–	–	580	–	–	<140 U	–
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–	<8.7 U	–	–	160 J	–	–	150 J	–	–	300 J	–	–	150 J	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–	3.1 J	–	–	150 J	–	–	<150 U	–	–	120 J	–	–	<150 U	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–	<8.7 U	–	–	130 J	–	–	<140 U	–	–	260 J	–	–	<140 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–	<8.7 U	–	–	250 J	–	–	<140 U	–	–	320	–	–	<140 U	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<140 U	–	–	94 J	–	–	<140 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–	<8.7 U	–	–	380	–	–	79 J	–	–	210 J	–	–	79 J	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–	<8.7 UJ	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–	<8.7 U	–	–	48 J	–	–	<150 U	–	–	180 J	–	–	<150 U	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–	2.4 J	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–	3.45 J	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–	<8.7 U	–	–	97.3 J	–	–	28.4 J	–	–	281 J	–	–	<150 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–
						Maximum Before 8/7/2022	ND	159	ND	ND	142000	ND	ND	140000	–	ND	580	ND	ND	230	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–	<8.7 U	–	–	88.4 J	–	–	<152 U	–	–	<152 U	–	–	<152 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–	<8.7 U	–	–	56.3 J	–	–	<155 U	–	–	191 J	–	–	<155 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–	<8.7 U	–	–	<143 U	–	–	–	–	–	<143 U	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	<8.7 U	–	–	<143 U	–	–	–	–	–	<143 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–	2.26 J	–	–	51.7 J	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–	<8.7 U	–	–	<152 U	–	–	–	–	–	<152 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	–	–	<80 UJ	–	–	<110 U	–	–	–	–	–	<320 U	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	17600		ND		ND		ND		6.7	
						Maximum After 8/6/2022	610		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	<350	U	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	200	J	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	17600	J-	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	180	J	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	150	J-	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	<350	UJ	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	<350	UJ	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	130	J	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	<350	U	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	240	J	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	3800		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	640		<0.0049	U	–		–		1.2	J
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	1000		<0.0049	U	–		–		1.2	J
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		<80	U	–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	1600		<0.0050	U	–		–		1.9	J
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		<80	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	780		<0.0051	U	–		–		1.6	J
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	1200		<0.0049	U	–		–		2.5	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	–		<0.0049	U	–		–		2.5	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	810		<0.0050	U	–		–		2.2	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	2000		<0.0048	U	–		–		2.5	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	890		<0.0048	U	–		–		2.6	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	2500		<0.0048	U	–		–		1.8	J
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	1300		<0.0048	U	–		–		2.2	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	1500		<0.0049	U	–		–		2	J
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	1100		<0.0049	U	–		–		1.5	J
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	1400		<0.0049	U	–		–		6.7	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	750	J+	<0.02	U	–		–		2.4	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		<5000	U	–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	17600		ND		ND		ND		6.7	
						Maximum After 8/6/2022	610		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	400	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	240	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	290	J	<0.005	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	250	J	<0.005	U	–		–		<1.2	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	230	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	260	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	280	J	<0.0048	UJ	–		–		<1.2	U
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	270	J	<0.0049	UJ	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	330	J	<0.0048	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	390	J	<0.0048	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	240	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	330	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	250	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	260	J	<0.005	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	610		<0.005	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	620		<0.005	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	640		<0.005	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	380	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	424	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	235	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	255	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	221	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	291	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	255	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	17600		ND		ND		ND		6.7	
						Maximum After 8/6/2022	610		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	291	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	223	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	269	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	233	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	315	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	227	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	468	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	246	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	317	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	273	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	286	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	290	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	276	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	254	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	417	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	240	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	530	J	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	470	J	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	UJ
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	410	J	<0.0058	U	–		–		<1.3	UJ
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	610	J	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	400	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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

						Analyte	TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup		Total Organic Carbon	
						CAS No.	PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC		–	
						Method	8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		–	
						DOH Tier 1 EAL	300		300		300		400		400		400		—		—		—		500		500		500		—		—		—		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		–		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND	
						Maximum Before 8/7/2022	ND		–		–		260		260		–		ND		ND		–		540		530		–		370		ND		–		17300	
						Maximum After 8/6/2022	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		–		–		–		<300.0	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		370		–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		480	J+	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	UJ	–		–		<400	U	–		–		<320	UJ	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		230	J	–		–		200	J	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	<18.0	UJ	–		–		<300.0	U	–		–		<300	U	–		–		540		–		–		<300	U	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		480	J+	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		320		–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300	U	–		–		530		–		–		<300	U	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	U	–		–		520	J+	–		–		190	J+	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	<18.0	U	–		–		<300	U	–		–		<300	U	–		–		320	J+	–		–		<300	UJ	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		270	J+	–		–		370	J	–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<480	UJ	–		–		<300	U	–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300	UJ	–		–		<300	UJ	–		–		<350	U
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300	UJ	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300	UJ	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		<140	UJ	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		<140	UJ	–		–		–		–		–		<140	UJ	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		<140	UJ	–		–		–		–		–		<140	UJ	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		<140	UJ	–		–		–		–		–		100	J-	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		<140	UJ	–		–		–		–		–		<140	UJ	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		250	J
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		17300	J-
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		230	J
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	UJ	–		–		<300.0	U	–		–		<300.0	UJ	–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		280	J-
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<350	UJ
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		–	

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

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Lab) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup	Total Organic Carbon
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC	–
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	–
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—	–
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	–	–	ND	ND	–	ND	ND	–	ND	ND	–	ND	ND	–	ND
						Maximum Before 8/7/2022	ND	–	–	260	260	–	ND	ND	–	540	530	–	370	ND	–	17300
						Maximum After 8/6/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–	–	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	<18 U	–	–	<300 U	–	–	<300 U	–	–	<300 U	–	–	<300 U	–	–	190 J
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–	–	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	<18 U	–	–	<300.0 U	–	–	<300.0 U	–	–	<300 U	–	–	<300.0 U	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–	–	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–	–	–	–	45 J	–	–	<110 U	–	–	120 J	–	–	<140 U	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	<18 U	–	–	<300 U	–	–	<300 U	–	–	<300 U	–	–	<300 U	–	–	170 J
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–	–	–	–	210 J	–	–	<120 U	–	–	390	–	–	<140 U	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	<18 U	–	–	<300 U	–	–	<300 U	–	–	<300 U	–	–	<300 U	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–	–	–	–	40 J	–	–	<110 U	–	–	230 J	–	–	<140 U	–	–
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–	–	–	–	260 J	–	–	<120 U	–	–	530	–	–	<140 U	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	<18 U	–	–	<300 U	–	–	<300 U	–	–	<300 U	–	–	<300 U	–	–	190 J
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–	–	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	<18 U	–	–	<300 U	–	–	<300 U	–	–	<300 UJ	–	–	<300 U	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–	–	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–	–	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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

						Analyte	1,2-Dibromoethane	2-2 Butoxyethoxy-ethanol	2-(2- Methoxyethoxy)-ethanol	Methane
						CAS No.	106-93-4	112-34-5	111-77-3	74-82-8
						Method	8011	8015C - DAI	8270D	SW8015M
						DOH Tier 1 EAL	0.04	–	800	–
						Units	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	–
						Maximum Before 8/7/2022	–	–	–	–
						Maximum After 8/6/2022	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–

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

						Analyte	1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	106-93-4		112-34-5		111-77-3		74-82-8	
						Method	8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		–		–		–	
						Maximum Before 8/7/2022	–		–		–		–	
						Maximum After 8/6/2022	–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds fr

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DO

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sa

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. Th

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	420	ND	–	ND	–	–	270	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–	–	–	–	420	–	–	<110 U	–	–	240 J	–	–	<140 U	–
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–	<8.7 U	–	–	97 J	–	–	<120 U	–	–	270 J	–	–	<150 U	–
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	–	<8.7 U	–	–	130 J	–	–	<120 U	–	–	<160 U	–	–	<160 U	–
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	99 J	–	–	<150 U	–
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	–	<8.7 U	–	–	38 J	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<140 U	–	–	140 J	–	–	<140 U	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	420	ND	–	ND	–	–	270	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	1800		ND		–		–		ND	
						Maximum After 8/6/2022	830		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	1800		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	520	J	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	240	J	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<500	U	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<500	U	<0.0050	U	–		–		<2.0	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	350	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	320	J	<0.0048	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	200	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	320	J	<0.0048	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	320	J	<0.0049	UJ	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	330	J	<0.0048	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	260	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	190	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	460	J	<0.005	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	390	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	376	J	<0.00481	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	350	J	<0.00481	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	328	J	<0.00481	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	318	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	374	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	1800		ND		–		–		ND	
						Maximum After 8/6/2022	830		ND		–		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	334	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	364	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	308	J	<0.005	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	380	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	424	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	346	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	530	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	470	J	<0.0058	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	660	J	<0.0058	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	710	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	820	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	830	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Sampling: Sump Adit 3

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	44.1	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	650	ND	–	684000	ND	–	668000	–	–	980	ND	–	470	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	–	253	–	–	684000	–	–	668000	–	–	980	–	–	<7100 U	–
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	–	47	–	–	4700	–	–	4000	–	–	380	–	–	180 J	–
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	–	85	–	–	5500 J-	–	–	3700 J-	–	–	350 J-	–	–	– R	–
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	–	78	–	–	2100	–	–	1500	–	–	470	–	–	160 J	–
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	–	650	–	–	171000	–	–	154000	–	–	640	–	–	<730 U	–
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	–	18 J	–	–	1500	–	–	<150 U	–	–	330	–	–	<150 U	–
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	–	16 J	–	–	1000	–	–	660	–	–	380	–	–	130 J	–
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	–	7.7 J	–	–	670	–	–	260 J	–	–	300 J	–	–	<140 U	–
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	–	3.7 J	–	–	320	–	–	160 J	–	–	120 J	–	–	<140 U	–
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	–	27	–	–	3500	–	–	2300	–	–	880	–	–	470	–
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	–	5.2 J	–	–	180 J	–	–	88 J	–	–	<140 U	–	–	<140 U	–
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	–	12 J	–	–	1100	–	–	950	–	–	160 J	–	–	120 J	–
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–	3.2 J	–	–	140 J	–	–	65 J	–	–	<140 U	–	–	<140 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–	4 J	–	–	110 J	–	–	<140 U	–	–	130 J	–	–	<140 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–	4.2 J	–	–	150 J	–	–	<140 U	–	–	<140 U	–	–	<140 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–	5.2 J	–	–	440	–	–	180 J	–	–	280 J	–	–	180 J	–
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–	<8.7 U	–	–	150 J	–	–	<150 U	–	–	120 J	–	–	<150 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–	3.3 J	–	–	580	–	–	<150 U	–	–	420	–	–	<150 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–	<8.7 U	–	–	150 J	–	–	<150 U	–	–	200 J	–	–	<150 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–	<8.7 U	–	–	60.8 J	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–	<8.7 U	–	–	66.6 J	–	–	<120 U	–	–	100 J	–	–	<150 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–	<8.7 U	–	–	46.6 J	–	–	48.5 J	–	–	126 J	–	–	<150 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–	<8.7 U	–	–	167 J	–	–	42.4 J	–	–	144 J	–	–	<150 U	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Sampling: Sump Adit 3

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	44.1	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	650	ND	–	684000	ND	–	668000	–	–	980	ND	–	470	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–	<8.7 U	–	–	165 J	–	–	101 J	–	–	327	–	–	218 J	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–	<8.7 U	–	–	57.8 J	–	–	29.3 J	–	–	<152 U	–	–	<152 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–	<8.7 U	–	–	85.5 J	–	–	32.2 J	–	–	<150 U	–	–	<150 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–	<8.7 U	–	–	449 J	–	–	<121 U	–	–	586 J	–	–	<152 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–	<8.7 U	–	–	44.1 J	–	–	<119 U	–	–	<149 UJ	–	–	<149 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–	<8.7 U	–	–	76.2 J	–	–	<119 U	–	–	190 J	–	–	<149 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–	<8.7 U	–	–	48.8 J	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–	2.09 J	–	–	55.3 J	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Sampling: Sump Adit 3

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		ND		0.82	
						Maximum Before 8/7/2022	7000		ND		–		32000		57	
						Maximum After 8/6/2022	520		ND		–		–		0.69	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	410	J	<0.0049	U	–		–		50	
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	3300		<0.0050	U	–		–		34	
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		<80000	U	–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		32000		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	2100		<0.0049	U	–		–		5.9	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	7000		<0.0048	U	–		–		2	J
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	4600		<0.02	U	–		–		9.5	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	2800	J	<0.0049	U	–		–		5.5	
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	2700		<0.02	U	–		–		6.3	
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	680		<0.005	U	–		–		2	
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	1100		<0.005	U	–		–		57	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	610		<0.0049	U	–		–		2.2	
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	530		<0.0049	U	–		–		3.2	
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	490	J	<0.0049	UJ	–		–		2.7	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	460	J	<0.0049	U	–		–		1.7	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	520		<0.0048	U	–		–		1.5	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	710		<0.0049	U	–		–		2.5	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	540		<0.005	U	–		–		1.2	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	510		<0.005	U	–		–		1.4	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	410	J	<0.0048	U	–		–		1.3	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	405	J	<0.0049	U	–		–		1.23	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	363	J	<0.00481	U	–		–		1.44	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	349	J	<0.00481	U	–		–		1.07	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	577		<0.00481	U	–		–		1.96	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Sampling: Sump Adit 3

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		ND		0.82	
						Maximum Before 8/7/2022	7000		ND		–		32000		57	
						Maximum After 8/6/2022	520		ND		–		–		0.69	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	347	J	<0.0049	U	–		–		1.42	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	338	J	<0.0049	U	–		–		1.68	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	394	J	<0.00481	U	–		–		1.26	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	388	J	<0.00499	U	–		–		1.47	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	332	J	<0.0049	U	–		–		1.33	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	406	J	<0.0049	U	–		–		1.24	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	351	J	<0.0049	U	–		–		1.37	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		0.82	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	520	J	<0.0058	U	–		–		0.68	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	380	J	<0.0058	U	–		–		0.69	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	500	J	<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	180	ND	–	ND	–	–	410	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<110 U	–	–	160 J	–	–	<140 U	–
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	–	<8.7 U	–	–	49 J	–	–	<140 U	–	–	95 J	–	–	<140 U	–
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	–	<8.7 U	–	–	100 J	–	–	<150 U	–	–	270 J	–	–	<150 U	–
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	–	<8.7 U	–	–	180 J	–	–	<150 U	–	–	410	–	–	<150 U	–
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<140 U	–	–	100 J	–	–	<140 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	<140 U	–	–	110 J	–	–	<140 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–	<8.7 U	–	–	<147 U	–	–	–	–	–	<147 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–	<8.7 U	–	–	<147 U	–	–	–	–	–	<147 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–	<8.7 U	–	–	<152 U	–	–	–	–	–	<152 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–	<8.7 U	–	–	<152 U	–	–	–	–	–	<152 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–	<8.7 U	–	–	<147 U	–	–	–	–	–	<147 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	180	ND	–	ND	–	–	410	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–	<8.7 U	–	–	40.6 J	–	–	<114 U	–	–	<143 U	–	–	<143 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–	<8.7 U	–	–	40.5 J	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–	<8.7 U	–	–	44.4 J	–	–	<150 U	–	–	107 J	–	–	<150 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–	<8.7 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<149 U	–	–	86.7 J	–	–	<149 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–	<8.7 U	–	–	<136 U	–	–	–	–	–	<136 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	<8.7 U	–	–	<153 U	–	–	<153 U	–	–	52.8 J	–	–	<153 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	<8.7 U	–	–	<153 U	–	–	<153 U	–	–	52.8 J	–	–	<153 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	670		ND		–		–		ND	
						Maximum Before 8/7/2022	1200		ND		–		–		ND	
						Maximum After 8/6/2022	1100		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	780		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	1200		<0.0048	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	930		<0.005	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	870		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	900		<0.0049	UJ	–		–		<1.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	890		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	910		<0.0048	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	870		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	930		<0.005	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	950		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	1200		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	860		<0.00499	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	700		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	721		<0.00481	U	–		–		<1.16	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	670		ND		–		–		ND	
						Maximum Before 8/7/2022	1200		ND		–		–		ND	
						Maximum After 8/6/2022	1100		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	727		<0.00499	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	746		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	708		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	765		<0.00499	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	729		<0.00499	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	756		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	802		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	765		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	670	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	840	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	1100	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	980	J	<0.0058	U	–		–		<1.3	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	830	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	990	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	950	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	1100	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	2.58	ND	–	876	ND	–	ND	–	–	677	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	–	<8.7 U	–	–	57 J	–	–	<120 U	–	–	120 J	–	–	<150 U	–
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	93 J	–	–	<150 U	–
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	–	<8.7 U	–	–	120 J	–	–	<140 U	–	–	240 J	–	–	<140 U	–
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–	<8.7 U	–	–	210 J	–	–	<140 U	–	–	280 J	–	–	<140 U	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–	<8.7 U	–	–	56 J	–	–	<140 U	–	–	140 J	–	–	<140 U	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–	<8.7 U	–	–	100 J	–	–	<150 U	–	–	220 J	–	–	<150 U	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–	<8.7 U	–	–	876	–	–	<147 U	–	–	677	–	–	<147 U	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–	2.58 J	–	–	<147 U	–	–	–	–	–	<147 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–	<8.7 U	–	–	<141 U	–	–	–	–	–	<141 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–	<8.7 U	–	–	<142 U	–	–	–	–	–	<142 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–	–	<149 U	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	630		ND		–		–		10	
						Maximum After 8/6/2022	560		ND		–		–		1.2	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	560		<0.0048	U	–		–		9.1	
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	630		<0.0048	U	–		–		10	
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	550		<0.005	U	–		–		9.9	
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	530		<0.0049	U	–		–		10	
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	440	J	<0.0049	UJ	–		–		1.7	J
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	470	J	<0.0049	U	–		–		4.8	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	440	J	<0.0048	U	–		–		3.2	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	440	J	<0.0049	U	–		–		5	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	470	J	<0.005	U	–		–		4	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	480	J	<0.0048	U	–		–		4.4	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	520		<0.0049	U	–		–		<1.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	448	J	<0.0049	U	–		–		4.66	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	369	J	<0.0048	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	386	J	<0.00481	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	332	J	<0.0049	U	–		–		5.79	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	387	J	<0.0049	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	357	J	<0.0049	U	–		–		2.69	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	388	J	<0.0049	U	–		–		1.36	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	365	J	<0.00499	U	–		–		2.56	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	405	J	<0.00481	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	403	J	<0.0049	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	371	J	<0.0049	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	460	J	<0.0058	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	450	J	<0.0058	U	–		–		1.2	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	380	J	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	500	J	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	530	J	<0.0056	U	–		–		0.64	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	560	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	94.4	ND	–	ND	–	–	228	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<110 U	–	–	<140 U	–	–	<140 U	–
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–	<8.7 U	–	–	46 J	–	–	<140 U	–	–	140 J	–	–	<140 U	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	<8.7 U	–	–	48 J	–	–	<119 U	–	–	<148 U	–	–	<148 U	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	<8.7 U	–	–	<149 UJ	–	–	<149 UJ	–	–	<149 UJ	–	–	<149 UJ	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	ND	ND	–	94.4	ND	–	ND	–	–	228	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–	<8.7 U	–	–	94.4 J	–	–	<120 U	–	–	228 J	–	–	<150 U	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	<8.7 U	–	–	41.7 J	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	450		ND		–		–		ND	
						Maximum After 8/6/2022	ND		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	270	J	<0.0048	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	450	J	<0.0048	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	370	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<500	U	<0.0048	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<500	U	<0.0048	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	290	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	290	J	<0.005	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	310	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	290	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	230	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	350	J	<0.005	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	330	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	265	J	<0.005	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	246	J	<0.00481	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	274	J	<0.00481	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	247	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	243	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	450		ND		–		–		ND	
						Maximum After 8/6/2022	ND		ND		–		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	278	J	<0.00481	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	320	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	296	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	310	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	260	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	2.88	ND	–	335	ND	–	ND	–	–	565	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	–	<8.7 U	–	–	100 J	–	–	<120 U	–	–	270 J	–	–	<140 U	–
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	–	<8.7 U	–	–	76 J	–	–	<110 U	–	–	170 J	–	–	<140 U	–
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	–	<8.7 U	–	–	190 J	–	–	<110 U	–	–	250 J	–	–	<140 U	–
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–	–	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–	<8.7 U	–	–	<148 U	–	–	–	–	–	<148 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
						CAS No.	PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
						Method	8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
						DOH Tier 1 EAL	300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
						Maximum Before 8/7/2022	–	2.88	ND	–	335	ND	–	ND	–	–	565	ND	–	ND	–
						Maximum After 8/6/2022	–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–	<8.7 U	–	–	<147 U	–	–	–	–	–	<147 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–	<8.7 U	–	–	<150 U	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–	2.88 J	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–	<8.7 U	–	–	256 J	–	–	<121 U	–	–	491	–	–	<152 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	<8.7 U	–	–	335	–	–	<120 U	–	–	565	–	–	<150 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–	<8.7 U	–	–	218 J	–	–	<119 U	–	–	356	–	–	<149 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–	2.78 J	–	–	192 J	–	–	<152 U	–	–	345	–	–	<152 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	<8.7 U	–	–	191 J	–	–	<149 U	–	–	468	–	–	<149 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	650		ND		–		–		ND	
						Maximum After 8/6/2022	460		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	650		<0.0048	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	630		<0.0048	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	610		<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	520		<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<500	U	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	420	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	370	J	<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	360	J	<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	400	J	<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	360	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	250	J	<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	370	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	361	J	<0.0048	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		–		–		ND	
						Maximum Before 8/7/2022	650		ND		–		–		ND	
						Maximum After 8/6/2022	460		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	279	J	<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	434	J	<0.00481	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	486	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	293	J	<0.00499	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	297	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	326	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	331	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	317	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	346	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	291	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	440	J	<0.0058	U	–		–		<1.3	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	460	J	<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Appendix B.4.2 – GW Analytical Table_BTEX_VOCS

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

Non-bold text indicates non-detected value
Bold text indicates detected value, but below the Environmental Action Level (EAL).
Bold and orange shaded text indicates exceeds the Department of Health Tier 1 EAL.
Green text indicates results have completed third-party validation.
— = not analyzed or not applicable
µg/L = microgram per liter (same as parts per billion)
B = Analyte detected in associated method blank
CAS = Chemical Abstracts Service
a = Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b = Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
c = Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed.
d = The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D = Limit of Quantitation (LOQ) increased due to sample matrix.
J = estimated value
J- = estimated value, low bias
J+ = estimated value, high bias
J1 = estimated value due to discrepancies in meeting analyte-specific quality control criteria.
JM = estimated value, manually integrated
JMQ = estimated value, manually integrated with one or more quality control outside acceptance criteria
JQ = estimated value with one or more quality control outside of acceptance criteria
mg/L = milligram per liter
M = manually integrated
ND = Nondetect
no. = number
Q = one or more quality control outside of acceptance criteria
QC = quality control
U = nondetect value
UM = nondetect value, manually integrated
UMQ = nondetect value, manually integrated with one or more quality control outside acceptance criteria
UQ = nondetect value with one or more quality control outside of acceptance criteria
S = A documented laboratory error occurred during extraction, which contributed to low surrogate recovery. The sample was re-extracted; extraction prep hold time was exceeded by 4.83
O = Diluted out
-O = The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T = Analyte detected in the associated trip blank
TB = trip blank. Do not count for total sample number. Only done for quality control purposes.
TPH-g = total petroleum hydrocarbons-gasoline range organics
TPH-d = total petroleum hydrocarbons-diesel range organics
TPH-o = total petroleum hydrocarbons-residual range
R = Exclusion of data recommended. The sample result was affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control
H = Sample was prepped or analyzed beyond the specified holding time

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.15		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–	R	–	R	–	R	–	R	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	–		<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.15		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	**0.0719**	**J**	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–		–	**R**	–	**R**	–	**R**	–	**R**	–	**R**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.15		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	**0.15**	**J**	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.51		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.611	
						Maximum After 8/6/2022	0.22		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U

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						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.51		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.611	
						Maximum After 8/6/2022	0.22		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	**0.2**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	**0.19**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.611**	**J**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	**R**	–		–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	**0.227**	**J**	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.51		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.611	
						Maximum After 8/6/2022	0.22		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	**0.51**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	UJ	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	**0.22**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Methyl ethyl ketone	Methyl tert-butyl ether (MTBE)	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane
						CAS No.	78-87-5	142-28-9	594-20-7	563-58-6	10061-01-5	10061-02-6	78-93-3	1634-04-4	75-09-2	100-42-5	630-20-6	79-34-5	127-18-4	71-55-6	79-00-5
						Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
						DOH Tier 1 EAL	5	–	–	–	–	–	5600	5	5	10	0.61	0.078	5	11	5
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<0.25 U	<0.25 U	<0.5 U	<0.25 U	<0.25 U	<0.25 U	<5 U	<0.25 U	<0.5 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.5 U	<0.25 U
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<0.25 U	<0.25 U	<0.5 U	<0.25 U	<0.25 U	<0.25 U	<5 U	<0.25 U	<0.5 U	<0.25 U	<0.25 U	<0.25 U	<0.25 U	<0.5 U	<0.25 U

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Groundwater Sampling: RHMW01R

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		39		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	12	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	23		<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	39		<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	2.7	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	2.7	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		39		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.15		0.35		0.079	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.085		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U		
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.15		0.35		0.079	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.085		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	0.06	J
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		–	
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		–	
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.21	J	<0.1	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.35	J	<0.05	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.1	J	<0.05	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.16	J	<0.05	U
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.15	J	<0.05	U
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.08	J	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.111	J	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.146	J	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	<0.1	U	<0.1	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0578	J	<0.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0578	J	<0.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.15		0.35		0.079	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.085		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.126**	**J**	<0.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	**0.15**	**J**	**0.084**	**J**	**0.079**	**J**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	–	**R**	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.085**	**J**	<0.08	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		0.309		ND		0.47		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.036		0.28		ND		0.41		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–	R	0.3	J-	–	R	–	R	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	<0.30	U	0.27	J	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	<0.30	U	0.23	J	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	<0.30	U	0.27	J	<0.30	U	0.47	J	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	<0.30	U	0.23	J	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	0.12	J	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<0.20	U	0.11	J	<0.20	U	0.15	J	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<0.20	U	0.11	J	<0.20	U	0.16	J	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<0.2	U	0.21	J	<0.2	U	0.13	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<0.2	U	0.27	J	<0.2	U	0.2	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		0.309		ND		0.47		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.036		0.28		ND		0.41		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	<0.2	U	0.18	J	<0.2	U	0.19	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	<0.2	U	0.15	J	<0.2	U	0.19	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	<0.2	U	0.17	J	<0.2	U	0.19	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	<0.2	U	0.14	J	<0.2	U	0.17	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	<0.2	U	0.13	J	<0.2	U	0.21	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	<0.2	U	0.13	J	<0.2	U	0.16	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	<0.2	U	0.11	J	<0.2	U	0.13	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	0.14	J	<0.2	U	0.137	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	0.128	J	<0.2	U	0.136	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	0.13	J	<0.2	U	0.16	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	0.092	J	<0.2	U	0.146	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	0.159	J	<0.2	U	0.106	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	0.309	J	<0.2	U	0.197	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	0.188	J	–	R	0.279	J	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	0.152	J	<0.2	U	0.277	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	0.262	J	<0.2	U	0.268	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	0.0878	J	<0.2	U	0.104	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	0.179	J	<0.2	U	0.144	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.07	U	0.11	J	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	0.034	J	0.17	J	<0.15	U	0.17	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.07	U	0.067	J	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	0.036	J	0.28	J	<0.15	U	0.31	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.07	U	0.14	J	<0.15	U	0.41	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.21		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.279	
						Maximum After 8/6/2022	0.24		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.21		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.279	
						Maximum After 8/6/2022	0.24		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	**0.21**	J	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.279**	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	**0.24**	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		2.7		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.29	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		2.7		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.29	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	2.7	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	0.29	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.279		2		0.11	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		0.41		0.22		0.085	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.15**	J	–	
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	**0.13**	J	**0.57**	J	<0.1	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.09**	J	**0.06**	J
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	**0.16**	J	**0.16**	J	<0.1	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	**0.13**	J	**2**		**0.06**	J
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	**0.2**	J	**0.2**	J	<0.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.279		2		0.11	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		0.41		0.22		0.085	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.19	J	<0.05	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.19	J	0.07	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.19	J	0.15	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.17	J	0.11	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.21	J	0.16	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.16	J	0.17	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.13	J	<0.1	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.137	J	<0.1	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.136	J	0.168	J	<0.05	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.16	J	<0.1	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.146	J	<0.1	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.106	J	<0.1	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.197	J	0.257	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	0.279	J	0.213	J	<0.1	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.277	J	0.356	J	<0.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.268	J	0.11	J	<0.1	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.104	J	0.154	J	<0.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.144	J	0.197	J	<0.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.25	J	0.11	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.17	J	<0.08	U	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.081	J	0.085	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.31	J	0.055	J	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	0.41	J	<0.08	U	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.22	J	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.08	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.16	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	<0.30	UJ	<0.50	UJ	<0.30	UJ	<0.30	UJ	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.27	U	<0.28	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

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Groundwater Sampling: RHMW03

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.08	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.16	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.08**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.16**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.069**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: RHMW03

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.274		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.274		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	**0.274**	**J**	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	**R**	–		–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	**0.173**	**J**	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	UJ	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		2.65		0.49	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.66		0.28	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.74**	J	–	
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.14**	J	<0.1	U
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.44**	J	**0.06**	J
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.14**	J	<0.1	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.4**	J	**0.08**	J
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.32**	J	<0.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		2.65		0.49	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.66		0.28	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	1		0.05	J
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.64	J	<0.05	U
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	2		0.1	J
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.89	J	0.13	J
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.64	J	0.1	J
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.5	J	<0.05	U
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.484	J	<0.05	UJ
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	1.21		0.0315	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.745	J	<0.05	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.515	J	<0.05	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	2.65		0.0608	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	0.626		<0.1	UJ
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.984		<0.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.536		0.0352	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.238	J	<0.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.108	J	<0.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.2	J	0.49	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.66		0.28	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	–	R	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.38	J	0.045	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.17	J	<0.08	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	0.18	J	0.13	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.32	J	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.308		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.75		ND		ND		ND	
						Maximum After 8/6/2022	0.27		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	0.75	J	<0.50	U	<0.25	U	<0.25	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.5	U	<0.2		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	0.226	J	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	0.308	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.308		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.75		ND		ND		ND	
						Maximum After 8/6/2022	0.27		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–	R	–		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	0.25	J	–		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	0.16	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	0.27	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	0.16	J	–		<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	0.16	J	–		<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	0.22	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	0.24	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		0.1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		0.1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	0.1	J	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		1.27		0.776	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		1.4		0.48	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.28**	J	<0.1	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.4**	J	<0.1	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.26**	J	<0.1	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.13**	J	**0.13**	J
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.32**	J	**0.07**	J
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.07**	J	<0.05	U
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.1**	J	<0.05	U
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.09**	J	<0.05	U
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.27**	J	<0.05	U
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.133**	J	<0.05	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.122**	J	<0.05	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.155**	J	<0.05	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		1.27		0.776	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		1.4		0.48	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.35	J	0.776	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.492	J	0.0412	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.204	J	<0.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–	R	–	R	–	R	–	R	–	R	–	R	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	0.393	J	0.0359	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	1.27		0.119	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.496	J	0.222	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.66		0.18	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	1.4	J	0.48	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.14	J	<0.08	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.16	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	0.1	J	0.11	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.15	J	0.1	J

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		0.135		0.287		0.72		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		0.15		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		0.135		0.287		0.72		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		0.15		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	**0.135**	**J**	**0.287**	**J**	**0.72**	**J**	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–		–	**R**	–	**R**	–	**R**	–	**R**	–	**R**
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	**0.15**	**J**	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.165		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.22		ND		ND		ND	
						Maximum After 8/6/2022	0.22		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	**0.17**	**J**	<0.50	U	<0.25	U	<0.25	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	**0.22**	**J**	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.165		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.22		ND		ND		ND	
						Maximum After 8/6/2022	0.22		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	**0.165**	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	**0.18**	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	**0.22**	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	**0.17**	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		15.7		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	3.6	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		15.7		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	2.4	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	15.7	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.07		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		0.522		0.198		3		0.338	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		0.15		1.8		0.15	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.28**	J	–	
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.28**	J	**0.06**	J
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**1**		**0.06**	J
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.12**	J	<0.1	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**3**		<0.1	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.16**	J	<0.1	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.11**	J	**0.11**	J
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.12**	J	<0.05	U
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.2**	J	<0.05	U
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.07**	J	<0.05	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.07		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		0.522		0.198		3		0.338	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		0.15		1.8		0.15	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.79	J	0.04	J
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.52	J	0.06	J
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.07	J	<0.05	U
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.22	J	<0.05	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	0.522	J	0.198	J	0.28	J	<0.05	UJ
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.218	J	0.0669	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0788	J	<0.05	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.879	J	<0.05	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.726	J	0.338	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	0.39	J	0.084	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.627		<0.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.468	J	<0.1	UJ
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.104	J	<0.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.275	J	0.101	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.59		0.19	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	1.8		0.088	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.15	J	0.42		<0.08	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.89		0.095	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	0.066	J	0.15	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.32	J	0.077	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.04	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	–		<0.5	U	<0.25	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.04	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.04**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.037**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.034**	**J**

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.318		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.158	
						Maximum After 8/6/2022	0.15		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	**0.177**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.158**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.318		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.158	
						Maximum After 8/6/2022	0.15		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	0.318	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	0.17	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	0.18	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	0.15	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		3.13		0.44	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.13		0.18	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.5	J	–	
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.25	J	<0.1	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	1		0.25	J
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.12	J	0.06	J
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.36	J	<0.1	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.11	J	<0.1	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.07	J	<0.05	U
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.17	J	0.06	J
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.27	J	<0.05	U
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	3.13		<0.05	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.125	J	<0.05	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.173	J	0.0478	J
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.103	J	<0.05	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		3.13		0.44	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.13		0.18	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.311**	**J**	<0.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.04**	**J**	**0.44**	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.4	U	<0.4	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	**0.13**	**J**	**0.18**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.049**	**J**	<0.08	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.88		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.24		ND		ND		0.808	
						Maximum After 8/6/2022	0.3		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	**0.24**	**J**	<0.50	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	**0.22**	**J**	<0.50	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	**0.23**	**J**	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	**0.22**	**J**	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	**0.18**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.88		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.24		ND		ND		0.808	
						Maximum After 8/6/2022	0.3		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.808**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	**0.88**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	**0.3**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	**0.17**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	UT	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	UT	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.43		0.1	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.77		0.19	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.31**	J	–	
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.43**	J	**0.1**	J
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		–	
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.17**	J	**0.07**	J
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.15**	J	<0.1	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.15**	J	<0.1	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.25**	J	<0.1	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.23**	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.09**	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.11**	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.14**	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.15**	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.08**	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.108**	J	<0.05	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.227**	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.43		0.1	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.77		0.19	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.141**	**J**	<0.05	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.38**	**J**	**0.0814**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.117**	**J**	<0.1	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0654**	**J**	**0.036**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.149**	**J**	<0.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.29**	**J**	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.77**	**J**	<0.4	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.14**	**J**	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.19**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	**0.13**	**J**	**0.077**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.13**	**J**	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.07	UJ	<0.07	UJ	<0.15	UJ	<0.35	UJ	<0.15	U	<0.15	UJ	<0.15	UJ	<0.35	UJ	–		<0.07	UJ	<0.15	UJ	<0.15	UJ	<0.25	UJ	<0.07	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.53		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.23		ND		ND		ND	
						Maximum After 8/6/2022	0.31		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	0.23	J	<0.50	U	<0.25	U	<0.25	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	0.28	J	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	0.53	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	0.31	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	0.2	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.35	UJ	–		<0.35	U	<0.25	U	<0.15	UJ	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	UJ	<0.15	UJ	<0.07	UJ	<0.15	UJ	<0.07	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	UT	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.15	UJ	<0.07	UJ	<0.15	UJ	<0.15	UJ	<0.15	UJ	<0.15	UJ	<5	U	<0.25	UJ	<3.5	UJ	<0.5	UJ	<0.15	UJ	<0.15	U	<0.25	U	<0.07	UJ	<0.15	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		2		0.14	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.23		0.076	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	2		–	
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.47	U	0.08	J
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	0.14	J
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.23	J	<0.1	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.26	J	0.1	J
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.14	J	<0.1	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.06	J	0.06	J
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.07	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.24	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.19	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.22	J	0.03	J
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.3	J	0.09	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0701	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.102	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.332	J	0.0983	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.118	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.305	J	0.0535	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.066	J	<0.08	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.083	J	<0.08	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.12	J	0.046	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.21	J	0.042	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.15	UJ	<0.35	UJ	<0.15	U	<0.015	UJ	<0.25	UJ	<0.35	UJ	0.096	J	0.045	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	0.23	J	0.076	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.22		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<0.25	U	<0.25	U	**0.22**	J	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	UT
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.22		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.43		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.14		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	**0.43**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	**0.2**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.43		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.14		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	**0.173**	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	**0.14**	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	UT	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.23		0.12	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		0.74	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.23**	**J**		
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.08**	**J**	<0.1	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	**0.12**	**J**
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.06**	**J**	<0.05	U
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.23		0.12	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		0.74	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	<0.1	U	<0.1	UJ
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.094**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.74**	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.04**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.13**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.067**	**J**

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.068		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	<0.2	U	<0.2	U	**0.068**		<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.607	
						Maximum After 8/6/2022	ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.607**	**J**
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.129**	**J**
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		1.1		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	UT	1.1		<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	0.36	J	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	0.12	J	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	0.088	J	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	0.12	J	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.273		0.08	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U		
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.11**	**J**	**0.04**	**J**
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.07**	**J**	**0.08**	**J**
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.08**	**J**	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.273**	**J**	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	**0.0314**	**J**
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	**0.041**	**J**
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0621**	**J**	<0.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.197**	**J**	<0.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.65	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.65**	**J**
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.46		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	**0.46**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.35	UJ	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	**0.18**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	**0.2**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		6.69		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.12		0.24	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	–	
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.08	J	<0.1	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.55	J	<0.1	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.06	J	<0.05	U
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.318	J	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	6.69		<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.12	J	<0.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.2	J
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.24	J
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	–	R	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.12	J	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	Benzene	Ethylbenzene	Toluene	Xylenes	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
						CAS No.	71-43-2	100-41-4	108-88-3	1330-20-7	108-86-1	74-97-5	75-27-4	75-25-2	74-83-9	56-23-5	108-90-7	124-48-1	75-00-3	67-66-3
						Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
						DOH Tier 1 EAL	5	30	40	20	–	–	–	80	7.6	5	25	–	16	28
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<0.25 U	<0.25 U	<0.25 U	<0.20 U	<0.25 U	<0.5 U	<0.5 U	<0.25 U	<0.5 U	<0.5 U	<0.25 U	–	<0.5 U	<0.25 U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<0.25 U	<0.25 U	<0.25 U	<0.20 U	<0.25 U	<0.5 U	<0.5 U	<0.25 U	<0.5 U	<0.5 U	<0.25 U	<0.25 U	<0.5 U	<0.25 U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.50 U	<0.25 U	<0.25 U	–	<0.50 U	<0.20 U	<0.20 U	<0.50 U	<0.20 U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.50 U	<0.25 U	<0.25 U	–	<0.50 U	<0.20 U	<0.20 U	<0.50 U	<0.20 U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.20 U	<0.50 U	<0.25 U	<0.25 U	–	<0.50 U	<0.20 U	<0.20 U	<0.50 U	<0.20 U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	– R	– R	– R	– R	– R	– R	– R	– R	–	– R	– R	– R	– R	– R
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.2 U	<0.5 U	<0.25 U	<0.25 U	–	<0.5 U	<0.2 U	<0.2 U	<0.5 U	<0.2 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.07 U	<0.07 U	<0.15 U	<0.35 U	<0.15 U	<0.15 U	<0.15 U	<0.35 U	–	<0.07 U	<0.15 U	<0.15 U	<0.25 U	<0.07 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.07 U	<0.07 U	<0.15 U	<0.35 U	<0.15 U	<0.15 U	<0.15 U	<0.35 U	–	<0.07 U	<0.15 U	<0.15 U	<0.25 U	<0.07 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.07 U	<0.07 U	<0.15 U	<0.35 U	<0.15 U	<0.15 U	<0.15 U	<0.35 U	–	<0.07 U	<0.15 U	<0.15 U	<0.25 U	<0.07 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.07 U	<0.07 U	<0.15 U	<0.35 U	<0.15 U	<0.15 U	<0.15 U	<0.35 U	–	<0.07 U	<0.15 U	<0.15 U	<0.25 U	<0.07 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.07 U	<0.07 U	<0.15 U	<0.35 U	<0.15 U	<0.15 U	<0.15 U	<0.35 U	–	<0.07 U	<0.15 U	<0.15 U	<0.25 U	<0.07 U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.07 U	<0.07 U	<0.15 U	<0.35 U	<0.15 U	<0.15 U	<0.15 U	<0.35 U	–	<0.07 U	<0.15 U	<0.15 U	<0.25 U	<0.07 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–	R	–		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.986		0.149	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.059		0.18	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.12	J	–	
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.08	J	<0.1	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	0.06	J
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	0.14	J
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.11	J	<0.1	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.13	J	<0.1	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.13	J	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.08	J	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	0.04	J
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	0.149	J
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	<0.1	U	<0.1	UJ
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0604	J	<0.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.986		<0.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.18	J
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.059	J	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.04	J	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	UT
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	UJ	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.35	UJ	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	UT	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.656		8.9	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.049		0.24	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U		
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.1**	**J**	<0.1	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.27**	**J**	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.184**	**J**	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.656		8.9	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.049		0.24	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.656		<0.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	8.9	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	0.0304	J
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0645	J	<0.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.57	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.24	J
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	–	R	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	–	R	<0.25	U	<0.35	U	0.049	J	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.15		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	UT
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.15		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	**0.15**	**J**	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.4		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.75		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	0.4	J	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.4		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.75		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	**0.269**	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	**0.75**		–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	UT	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.15		0.1		0.16	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.054		0.32	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U		
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		<0.1	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.09**	**J**	<0.1	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.1**		**0.05**	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.06**	**J**	<0.05	U
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.15		0.1		0.16	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.054		0.32	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	<0.1	U	<0.1	UJ
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0558**	**J**	**0.0383**	**J**
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	**0.15**	**J**	**0.045**	**J**	**0.16**	**J**
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.054**	**J**	**0.11**	**J**
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.32**	**J**
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.937		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	<0.2	U	<0.2	U	0.937	J	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	<0.2	U	<0.2	U	0.27	J	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	<0.2	U	<0.2	U	0.237	J	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.186		–		ND		ND		ND		ND		ND		ND		ND		ND		0.082		ND		ND		ND	
						Maximum After 8/6/2022	0.29		–		ND		ND		ND		ND		ND		ND		ND		ND		0.19		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	0.186	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	0.082	J	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	0.19	J	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	0.085	J	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	0.29	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When the

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screenir

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. Tl

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When the

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screenir

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. Th

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.07		0.11	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.24		0.054	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	0.0373	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.07	J	0.11	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.24	J	<0.4	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.096	J	0.054	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.12	J	<0.08	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.17	J	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When the

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screenir

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. Tl

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.17		0.068		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	**0.068**	**J**	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.2	U	<0.2	U	**0.17**	**J**	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.17		0.068		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.302		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.34		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.302		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.34		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	**0.302**	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	**0.22**	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	**0.34**	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.59		0.0846	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.12		0.81	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.12**	**J**	<0.1	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.1**	**J**	<0.1	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.25**	**J**	<0.1	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.59**	**J**	<0.05	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	**0.03**	**J**
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.09**	**J**	**0.04**	**J**
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.288**	**J**	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.257**	**J**	**0.0846**	**J**

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.59		0.0846	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.12		0.81	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0691**	**J**	<0.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.119**	**J**	**0.0309**	**J**
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.12**	**J**	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.073**	**J**	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	UJ	<0.08	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.083**	**J**	**0.81**	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		0.63		ND		7.2		ND		ND		ND		0.8		ND		ND		ND		0.26		ND		0.17	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.16	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	<0.30	U	<0.5	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	<0.20	U	0.06	J	<0.20	U	0.33	J	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	<0.20	U	0.63	J	<0.2	U	7.2		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	0.73	J	<0.5	U	<0.5	U	<0.25	U	0.2	J	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<0.25	U	<0.25	U	<0.25	U	0.85	J	<0.25	U	<0.5	U	<0.5	U	0.65	J	<0.5	U	<0.5	U	<0.25	U	0.2	J	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	1.7		<0.25	U	<0.5	U	<0.5	U	0.59	J	<0.5	U	<0.5	U	<0.25	U	0.17	J	<0.5	U	<0.25	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<2.7	U	<0.2	U	<0.5	U	<0.25	U	0.65	J	–		<0.5	U	<0.2	U	0.2	J	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	2.9		<0.2	U	<0.5	U	<0.25	U	0.6	J	–		<0.5	U	<0.2	U	0.2	J	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.2	U	<0.5	U	<0.25	U	0.8	J	–		<0.5	U	<0.2	U	0.26	J	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	0.085	J	<0.20	U	<0.50	U	<0.25	U	0.66	J	–		<0.50	U	<0.20	U	0.23	J	<0.50	U	<0.20	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	0.067	J	<0.20	U	<0.50	U	<0.25	U	0.65	J	–		<0.50	U	<0.20	U	0.23	J	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	0.61	J	–		<0.50	U	<0.20	U	0.21	J	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	0.17	J	<0.20	U	<0.50	U	<0.25	U	0.3	J	–		<0.50	U	<0.20	U	0.09	J	<0.50	U	<0.20	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	0.11	J	<0.20	U	<0.50	U	<0.25	U	0.28	J	–		<0.50	U	<0.20	U	0.1	J	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	0.31	J	–		<0.50	U	<0.20	U	0.12	J	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	0.19	J	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.50	U	<0.25	U	0.15	J	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	0.23	J	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	0.22	J	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	0.16	J	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		0.63		ND		7.2		ND		ND		ND		0.8		ND		ND		ND		0.26		ND		0.17	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.16	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.096	J
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.12	J
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.34	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.12	J
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.17	J
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.095	J
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.169	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.151	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.151	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.168	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.155	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.16	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.131	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		0.63		ND		7.2		ND		ND		ND		0.8		ND		ND		ND		0.26		ND		0.17	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.16	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.11**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.16**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.054**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.072**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.16**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.377		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.995	
						Maximum After 8/6/2022	0.68		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	**0.24**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	**0.23**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.377		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.995	
						Maximum After 8/6/2022	0.68		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	0.19	J	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	0.18	J	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	0.377	J	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	0.235	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	0.265	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	0.995	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	0.928	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	0.363	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	0.321	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.377		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.995	
						Maximum After 8/6/2022	0.68		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	**0.44**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	**0.68**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	**0.42**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		5.1		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		5.1		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	5.1	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	3.4	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	4	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	3.4	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		5.1		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		0.34		2.6		0.405		0.25	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.81		0.28	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	–	
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	**0.27**	**J**	**0.58**	**J**	–		–	
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	**0.34**	**J**	**1.3**		**0.1**	**J**	–	
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	**0.31**	**J**	**2.4**		**0.09**	**J**	<0.1	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	**0.32**	**J**	**2.6**		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.50	U	**0.085**	**J**	**0.18**	**J**	**0.25**	**J**
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	**0.07**	**J**
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	**0.17**	**J**	<0.1	U	**0.13**	**J**
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	**0.11**	**J**	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	**0.16**	**J**
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.33**	**J**	<0.1	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		0.34		2.6		0.405		0.25	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.81		0.28	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.08**	J	**0.08**	J
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.22**	J	**0.04**	J
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.08**	J	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	**0.23**	J	**0.11**	J	**0.34**	J	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.06**	J	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.22**	J	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.16**	J	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.19**	J	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.11**	J	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0754**	J	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.112**	J	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.405**	J	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.119**	J	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0551**	J	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0878**	J	<0.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		0.34		2.6		0.405		0.25	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.81		0.28	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.18**	**J**	**0.13**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.17**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.21**	**J**	<0.4	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.4	U	<0.4	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.81**		<0.08	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.059**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.27**	**J**	**0.11**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.28**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon tetrachloride	Chlorobenzene	Chlorodibromomethane	Chloroethane	Chloroform
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1	74-97-5	75-27-4	75-25-2	74-83-9	56-23-5	108-90-7	124-48-1	75-00-3	67-66-3
						Method	8260B		8260B		8260B		8260B		8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
						DOH Tier 1 EAL	5		30		40		20		–	–	–	80	7.6	5	25	–	16	28
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND		ND		ND		ND		–	–	–	–	–	–	–	–	–	–
						Maximum Before 8/7/2022	ND		ND		ND		ND		–	–	–	–	–	–	–	–	–	–
						Maximum After 8/6/2022	–		–		–		–		–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	<0.30	UJ	<0.50	UJ	<0.30	UJ	<0.30	UJ	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	<0.30	UJ	<0.50	UJ	<0.30	UJ	<0.30	UJ	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–	–	–	–	–	–	–	–	–	–

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

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		–		–		–		–		–		–		–		–		–		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		–		–		–		–		–		–		–		–		–		–	
						Maximum After 8/6/2022	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: RHSF

						Analyte	Chloromethane	1,2-Dibromoethane	2-Chlorotoluene	4-Chlorotoluene	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene
						CAS No.	74-87-3	106-93-4	95-49-8	106-43-4	74-95-3	95-50-1	541-73-1	106-46-7	75-71-8	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5
						Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
						DOH Tier 1 EAL	190	400	–	–	–	10	5	5	–	2.8	5	7	70	100
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum Before 8/7/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum After 8/6/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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						Analyte	Chloromethane	1,2-Dibromoethane	2-Chlorotoluene	4-Chlorotoluene	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene
						CAS No.	74-87-3	106-93-4	95-49-8	106-43-4	74-95-3	95-50-1	541-73-1	106-46-7	75-71-8	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5
						Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
						DOH Tier 1 EAL	190	400	–	–	–	10	5	5	–	2.8	5	7	70	100
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum Before 8/7/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum After 8/6/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from t

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH de

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sampl

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The re

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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						Analyte	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Methyl ethyl ketone	Methyl tert-butyl ether (MTBE)	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
						CAS No.	78-87-5	142-28-9	594-20-7	563-58-6	10061-01-5	10061-02-6	78-93-3	1634-04-4	75-09-2	100-42-5	630-20-6	79-34-5	127-18-4	71-55-6	79-00-5	79-01-6
						Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
						DOH Tier 1 EAL	5	–	–	–	–	–	5600	5	5	10	0.61	0.078	5	11	5	5
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum Before 8/7/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum After 8/6/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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						Analyte	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Methyl ethyl ketone	Methyl tert-butyl ether (MTBE)	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
						CAS No.	78-87-5	142-28-9	594-20-7	563-58-6	10061-01-5	10061-02-6	78-93-3	1634-04-4	75-09-2	100-42-5	630-20-6	79-34-5	127-18-4	71-55-6	79-00-5	79-01-6
						Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
						DOH Tier 1 EAL	5	–	–	–	–	–	5600	5	5	10	0.61	0.078	5	11	5	5
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum Before 8/7/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum After 8/6/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from t
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH de
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sampl
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The re
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

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

						Analyte	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl chloride	m+p-Xylenes	o-Xylene	Lead	Disolved Lead
						CAS No.	75-69-4	96-18-4	75-01-4	179601-23-1	95-47-6	7439-92-1	7439-92-1
						Method	8260B	8260B	8260B	8260B	8260B	SW6020	SW6020
						DOH Tier 1 EAL	–	0.6	2	–	–	5.6	–
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	–	–	–	–
						Maximum Before 8/7/2022	–	–	–	–	–	–	–
						Maximum After 8/6/2022	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–

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

						Analyte	Trichlorofluoromethane	1,2,3-Trichloropropane	Vinyl chloride	m+p-Xylenes	o-Xylene	Lead	Disolved Lead
						CAS No.	75-69-4	96-18-4	75-01-4	179601-23-1	95-47-6	7439-92-1	7439-92-1
						Method	8260B	8260B	8260B	8260B	8260B	SW6020	SW6020
						DOH Tier 1 EAL	–	0.6	2	–	–	5.6	–
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	–	–	–	–
						Maximum Before 8/7/2022	–	–	–	–	–	–	–
						Maximum After 8/6/2022	–	–	–	–	–	–	–
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–	–	–	–	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from t

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH de

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sampl

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The re

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.15	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.22	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.25	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	–		<0.5	U	**0.16**	J
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	**0.15**	J
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	**0.16**	J
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	**0.19**	J
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	**0.19**	J
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.18**	J
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.15**	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.18**	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.18**	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.18**	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.18**	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.16**	J+
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.17**	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.18**	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.194**	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.183**	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.205**	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.2**	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.15	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.22	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.25	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.182	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.202	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.198	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.213	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.203	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.22	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.16	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.23	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.17	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.25	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.22	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.172		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.963		1.28	
						Maximum After 8/6/2022	0.15		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.172		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.963		1.28	
						Maximum After 8/6/2022	0.15		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	**0.172**	J	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	**0.963**	J	**1.28**	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	**0.15**	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	UJ	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

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						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

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						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.15		0.74	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.19		0.17	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	–	
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	**0.06**	**J**
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.05**	**J**	**0.05**	**J**
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.15**	**J**	**0.74**	**J**
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.05**	**J**	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	

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						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.15		0.74	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.19		0.17	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.148**	J	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	**0.0352**	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.27**	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.051**	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.17**	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.15	U	<0.35	UJ	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.19**	J	**0.087**	J

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.19		6		4.7		71		ND		ND		0.235		3.97		ND		ND		ND		1.1		ND		1.2	
						Maximum After 8/6/2022	ND		0.093		ND		0.28		ND		ND		ND		ND		–		ND		ND		ND		ND		0.033	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<0.5	U	6		4.7		71		<0.5	U	<1	U	<1	U	<0.5	U	<1	U	<1	U	<0.5	U	<0.5	U	<1	U	<0.5	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	0.19	J	2.3		1.3		27		<0.25	U	<0.5	U	<0.5	U	0.82	J	<0.5	U	<0.5	U	<0.25	U	0.23	J	<0.5	U	0.42	J
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<0.20	U	0.3	J	0.14	J	5.4		<0.2	U	<0.5	U	<0.25	U	1		<0.5	U	<0.5	U	<0.2	U	0.23	J	<0.5	U	0.36	J
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<0.20	U	0.11	J	<0.20	U	2.1		<0.20	U	<0.50	U	<0.25	U	1.5		–		<0.50	U	<0.20	U	0.28	J	<0.50	U	0.32	J
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<0.20	U	0.26	J	<0.20	U	5.3		<0.20	U	<0.50	U	<0.25	U	0.14	J	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	0.2	J
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	1		<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	1.1	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.16	J	<0.2	U	<0.5	U	0.12		0.34	J	–		<0.5	U	<0.2	U	0.16	J	<0.5	U	1.2	
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.42	J	<0.2	U	<0.5	U	<0.25	U	0.41	J	–		<0.5	U	<0.2	U	0.16	J	<0.5	U	0.93	J
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.21	J
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<0.2	U	0.13	J	<0.2	U	0.66	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.11	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.11	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.11	J
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.073	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.14	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.099	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.35	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.11	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.36	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.11	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.091	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.086	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.104	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.19		6		4.7		71		ND		ND		0.235		3.97		ND		ND		ND		1.1		ND		1.2	
						Maximum After 8/6/2022	ND		0.093		ND		0.28		ND		ND		ND		ND		–		ND		ND		ND		ND		0.033	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.0835**	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.0791**	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	**0.0848**	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	**0.235**	J	**3.97**		–		<0.5	U	<0.2	U	**1.1**		<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.038**	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.033**	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.07	U	**0.093**	J	<0.15	U	**0.28**	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.307		ND		ND		ND		0.2		ND		ND		ND		ND		ND		ND		ND		ND		1.13	
						Maximum After 8/6/2022	0.42		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<1	U	<1	U	<0.5	U	<0.5	U	<1	U	<0.5	U	<0.5	U	<0.5	U	<1	U	<1	U	<1	U	<1	U	<1	U	<1	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	**0.2**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	**0.2**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.307		ND		ND		ND		0.2		ND		ND		ND		ND		ND		ND		ND		ND		1.13	
						Maximum After 8/6/2022	0.42		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**1.13**	**J**
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	**0.307**	**J**	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	**0.186**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	**0.42**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		27		ND		0.32		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<0.5	U	<0.5	U	<1	U	<0.5	U	<0.5	U	<0.5	U	<10	U	<0.5	U	0.32	J	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<1	U	<0.5	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	4.2	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	4	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	19	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	27		<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	2.3	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	14	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		27		ND		0.32		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		26		45		129		11	
						Maximum After 8/6/2022	ND		ND		ND		ND		0.28		ND		6.9		0.35	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<0.5	U	<1	U	<1	U	<1	U	26		45		–		–	
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	13		14		15			
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	1.9		3.5		6		0.12	J
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.73	U	1.3		6		0.23	J
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	2		3.3		1		0.11	J
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.41	J	0.62	J	1		0.07	J
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.42	J	<0.1	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.2	J	0.22	J	6	U	<0.1	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.28	J	0.37	J
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.33	J	0.34	J	129		11	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.11	J	0.36	J	0.06	J
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.11	J	1	J	0.21	J
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.073	J	0.09	J	0.09	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.65	J	<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.24	J	0.12	J	0.17	J	<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.24	J	0.12	J	18		<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.49	J	0.05	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.68	J	<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.9	J	0.27	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.0975	J	<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	24.7		0.0933	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	19.5		1.26	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		26		45		129		11	
						Maximum After 8/6/2022	ND		ND		ND		ND		0.28		ND		6.9		0.35	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	17.9		1.81	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	14.2		0.123	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	1.59		0.0682	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.95		0.124	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.684		<0.1	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	15.7		<0.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	8.28		0.217	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.049	J	0.38	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	6.9		0.35	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.37	J	0.24	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	0.28	J	<0.35	U	3.2		<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		1.6	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		0.069		ND		ND		ND		3.7	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		0.067		ND		ND		ND		3.8	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	2.1	
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	1.6	
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	1.9	
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.1	
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.6	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.7	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.77	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.75	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.74	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.78	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.9	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.99	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.87	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.85	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.79	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.67	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.86	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.74	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.89	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.74	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.97	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	3.43	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	3.34	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	3.04	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	3.03	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.91	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.85	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.064	J	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.069	J	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.055	J	<0.15	U	<0.15	U	<0.25	U	3.3	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.06	J	<0.15	U	<0.15	U	<0.25	U	3.3	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.059	J	<0.15	U	<0.15	U	<0.25	U	3.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.059	J	<0.15	U	<0.15	U	<0.25	U	3.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.067	J	<0.15	U	<0.15	U	<0.25	U	3.8	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.067	J	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.062	J	<0.15	U	<0.15	U	<0.25	U	3.6	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		1.6	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		0.069		ND		ND		ND		3.7	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		0.067		ND		ND		ND		3.8	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		**0.058**	**J**	<0.15	U	<0.15	U	<0.25	U	**3.6**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		**0.067**	**J**	<0.15	U	<0.15	U	<0.25	U	**3.8**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		**0.064**	**J**	<0.15	U	<0.15	U	<0.25	U	**3.8**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		**0.063**	**J**	<0.15	U	<0.15	U	<0.25	U	**3.5**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		**0.054**	**J**	<0.15	U	<0.15	U	<0.25	U	**3.7**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**3.5**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		**0.064**	**J**	<0.15	U	<0.15	U	<0.25	U	**3.4**	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.34		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.18		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	**0.285**	**J**	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.5	U	**<0.2**		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	**0.34**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	**0.14**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	**0.14**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	**0.18**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.34		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	0.18		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.131		0.14	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		0.11	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.08	J	<0.1	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.11	J	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.131	J	<0.05	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.14	J
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.04	J
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.131		0.14	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		0.11	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.11**	**J**

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.14		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.507	
						Maximum After 8/6/2022	0.27		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.507**	**J**
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	**0.14**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	**0.27**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	**0.25**	**J**	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		1.4		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<0.2	UJ	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	**1.4**	**J**	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.123		0.28	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.04		0.55	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.07**	**J**	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.123**	**J**	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.28**	**J**
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.55**	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	–	**R**	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	UJ	<0.08	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.04**	**J**	**0.11**	**J**

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	UJ	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.35	UJ	–		<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.13		0.18	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		0.36	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.12**	**J**	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.13**	**J**	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.06**	**J**	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	**0.04**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.07**	**J**	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.13		0.18	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		0.36	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	**0.0306**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	UJ	<0.08	U	**0.18**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.4	U	<0.4	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.23**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.1**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.36**	**J**

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.085	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.31	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.12	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	0.085	J
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	0.09	J
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.11	J
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.11	J
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.12	J
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.19	J
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.19	J
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.3	J
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.31	J
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.27	J
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.3	J
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.27	J
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.31	J
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.26	J
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.29	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.26	J
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.27	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.25	J
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.26	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.21	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.22	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.2	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.15	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.16	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.16	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.138	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.131	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.127	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.133	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.138	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.126	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.126	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.122	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.128	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.134	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.129	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.133	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.126	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.131	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.125	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.119	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.126	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	UJ	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.087	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	UJ	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.098	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.085	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.31	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.12	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.092**	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.096**	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.12**	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.12**	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.094**	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.094**	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.79		1.04	
						Maximum After 8/6/2022	0.67		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	**0.79**	**J**	**1.04**	**J**
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.5	U	–		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.35	UJ	–		<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	**R**	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.35	UJ	–		<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	**R**	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Chloromethane		1,2-Dibromoethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		106-93-4		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		400		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.79		1.04	
						Maximum After 8/6/2022	0.67		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.35	U	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.35	UJ	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	0.67	J	–		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	–	R	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.592		0.17	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.046		0.61	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.08	J	<0.1	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.29	J	0.17	J
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.06	J	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.24	J	0.1	J
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.1	J	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.07	J	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.18	J	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.241	J	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.592	J	0.0333	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.231	J	0.0479	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.201	J	0.0575	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0543	J	<0.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	UJ	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	UJ	<0.08	U	0.15	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.592		0.17	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.046		0.61	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.4	U	**0.61**	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.046**	J	**0.045**	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.42**	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Appendix B.4.3 – GW Analytical Table_SVOCs

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

Non-bold text indicates non-detected value
Bold text indicates detected value, but below the Environmental Action Level (EAL).
Bold and orange shaded text indicates exceeds the Department of Health Tier 1 EAL.
Green text indicates results have completed third-party validation.
— = not analyzed or not applicable
µg/L = microgram per liter (same as parts per billion)
B = Analyte detected in associated method blank
CAS = Chemical Abstracts Service
a = Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b = Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
c = Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed.
d = The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D = Limit of Quantitation (LOQ) increased due to sample matrix.
J = estimated value
J- = estimated value, low bias
J+ = estimated value, high bias
J1 = estimated value due to discrepancies in meeting analyte-specific quality control criteria.
JM = estimated value, manually integrated
JMQ = estimated value, manually integrated with one or more quality control outside acceptance criteria
JQ = estimated value with one or more quality control outside of acceptance criteria
mg/L = milligram per liter
M = manually integrated
ND = Nondetect
no. = number
Q = one or more quality control outside of acceptance criteria
QC = quality control
U = nondetect value
UM = nondetect value, manually integrated
UMQ = nondetect value, manually integrated with one or more quality control outside acceptance criteria
UQ = nondetect value with one or more quality control outside of acceptance criteria
S = A documented laboratory error occurred during extraction, which contributed to low surrogate recovery. The sample was re-extracted; extraction prep hold time was exceeded by 4.83
O = Diluted out
-O = The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T = Analyte detected in the associated trip blank
TB = trip blank. Do not count for total sample number. Only done for quality control purposes.
TPH-g = total petroleum hydrocarbons-gasoline range organics
TPH-d = total petroleum hydrocarbons-diesel range organics
TPH-o = total petroleum hydrocarbons-residual range
R = Exclusion of data recommended. The sample result was affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control
H = Sample was prepped or analyzed beyond the specified holding time

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<0.095	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<0.095	U
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<0.1	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<0.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.51	U	<0.51	U	<3.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	UJ	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.0	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	<0.29	U	<0.15	UJ	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	UJ	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.29	UJ	<0.15	UJ	<0.088	UJ	<0.088	UJ	–		<0.29	UJ	<0.29	UJ	<0.49	UJ	<0.49	UJ	–	R	<0.29	UJ	<0.29	UJ	<0.15	UJ	<0.15	UJ	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	<0.29	U	–	R	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	–	R	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.28	U	<0.14	U	<0.084	U	<0.084	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.29	U	<0.14	UJ	<0.087	U	<0.087	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	–		<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	–		<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	–		–		–		<5	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	<0.14	U	<0.57	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	<0.14	U	<0.57	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	<0.14	U	<0.57	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	U	<0.15	U	<0.31	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	<0.14	U	<0.57	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	UJ	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	UJ	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	UJ	–		<0.15	UJ	<5.8	UJ	–		–		–		<0.15	UJ	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.15	UJ	<0.29	UJ	–	R	<0.15	UJ	–	R	–		<0.15	UJ	<5.8	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		3.2		3.2		ND		ND		2		ND		0.2		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	UJ	<5.2	U	<5.2	U

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Groundwater Sampling: RHMW01R

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	3.2	3.2	ND	ND	2	ND	0.2	ND	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	–	–	–	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	–
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	–	–	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	–
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	–	–	–	<5.0 U	<5.0 U	<5.0 U	**2.2 J**	**3.2 J**	–	<5.0 U	**2 J**	–	<5.0 U	<5.0 U	–
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	–	–	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	–	–	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	–
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	–	–	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	–	–	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	–
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	–	–	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	–
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	–	–	–	<5 U	<5 U	<5 U	**3.2 J**	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	–	–	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 UJ	–	<0.48 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.61 UJ	–	<0.51 U	<0.3 U	–	<0.3 U	<0.15 U	–
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–	–	–	**<0.15 U**	**<0.091 U**	**<0.15 U**	**<1.6 U**	**<0.61 UJ**	–	**<0.50 U**	**<0.30 U**	–	**<0.30 U**	**<0.15 U**	–
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 UJ	–	<0.48 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.60 U	–	<0.50 U	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<0.48 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–	–	–	<0.15 U	<0.092 U	<0.15 U	<1.6 U	<0.61 U	–	<0.51 U	<0.31 U	–	<0.31 U	<0.15 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<0.48 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 UJ	<0.58 U	–	<7.8 U	<0.29 UJ	–	<0.29 U	<0.15 U	–
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.5 UJ	<0.58 U	–	<7.7 U	<0.29 UJ	–	<0.29 U	<0.15 U	–
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	**0.2 J+**	<0.15 U	–

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Groundwater Sampling: RHMW01R

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	3.2	3.2	ND	ND	2	ND	0.2	ND	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	<0.15 UJ	<0.088 UJ	<0.15 UJ	<1.6 UJ	<0.58 UJ	–	<7.8 UJ	<0.29 UJ	–	– R	<0.15 UJ	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	– R	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	<0.14 U	<0.084 U	<0.14 U	<1.5 U	<0.56 U	–	<7.5 U	<0.28 U	–	<0.28 U	<0.14 U	–
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.15 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 UJ	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	–	–	–	<0.14 UJ	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		0.15		ND		ND		ND		–		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<0.095	U	<4.8	U	<4.8	U	<9.5	U
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<0.1	U	<5.2	U	<5.2	U	<10	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 UJ	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.6 U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	–	<5.0 U	<5.0 U	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	<5.0 UJ	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	<10 U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<4.9 UJ	<4.9 UJ	<4.9 U	–	<4.9 U	<4.9 U	<9.7 U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	–	<5.0 U	<5.0 U	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	<5.0 UJ	<5.0 UJ	<5.0 U	–	<5.0 U	<5.0 U	<9.9 U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.6 U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	<10 U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	<10 U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	<10 U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<9.9 U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–	<0.086 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	0.15 J	<0.086 U	<0.57 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–	<0.091 U	<0.15 U	<0.3 U	<0.15 U	–	<0.3 U	<0.3 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1 U
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–	<0.086 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.57 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.60 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–	<0.086 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.57 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–	<0.092 U	<0.15 U	<0.31 U	<0.15 U	–	<0.31 U	<0.31 U	<0.092 U	<0.61 U	<0.15 U	–	<0.092 U	<0.15 U	<1.0 U
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–	<0.086 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.57 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–	<0.29 UJ	<0.15 U	<0.29 UJ	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 UJ	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U

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						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–	<0.29 UJ	<0.15 UJ	<0.29 UJ	<0.15 UJ	–	<0.29 UJ	<0.29 UJ	<0.088 UJ	– R	<0.15 UJ	–	<0.088 UJ	<0.15 UJ	– R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 UJ	<0.29 U	<0.14 U	–	<0.087 UJ	<0.14 U	– R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	– R	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 UJ	<0.14 U	–	<0.28 U	<0.28 U	<0.084 U	<0.28 U	<0.14 U	–	<0.084 U	<0.14 U	<0.94 U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.97 U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.086		1.4	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U

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						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.086		1.4	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	–		<4.8	U	–		<4.8	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	–		<5.0	U	–		<5.0	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	–		<4.9	U	–		<4.9	UJ
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	–		<5.0	U	–		<5.0	UJ
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	–		<5	U	–		<5	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	–		<4.8	U	–		<4.8	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	–		<5.1	U	–		<5.1	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	–		<5	U	–		<5	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	–		<5.1	U	–		<5.1	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	–		<5.2	U	–		<5.2	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	–		<5	U	–		<5	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	–		<5	U	–		<5	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		<0.57	U	<0.086	U	**1.4**	**J**
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		**<0.61**	**U**	**0.086**	**J**	**<3.2**	**U**
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		<0.61	U	<0.092	U	<3.3	U
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.0	U
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3	U
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		<0.58	U	<0.087	U	<3.1	UJ
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		<0.58	U	<0.087	U	<3.1	UJ
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		<0.58	U	<0.087	U	–	**R**

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.086		1.4	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		<0.58	UJ	–		–	R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		<0.58	U	–		–	R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		<0.57	U	–		<3	UJ
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.56	U	–		<3	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		3.7		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.86	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	3.7		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	0.86	
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	UJ	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		3.7		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.86	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	UJ	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		–	R	–	R	–	R	–	R	–	R	<0.30	U	<0.30	U	<0.15	U	–	R	–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	UJ	<0.50	U	<0.50	U	<1.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–	R	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	–	R	–	R	–	R	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	<0.29	U	–	R	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		–	R	–	R	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.087	UJ	<0.087	UJ	–		<2.9	U	<2.9	U	<0.48	U	<0.48	U	<12	U	<2.9	U	<2.9	U	<1.4	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.66		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	–		<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.66		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.31	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–	R	<0.61	UJ	–	R	<0.15	U	–	R	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	UJ	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	<0.15	U	<0.30	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	UJ	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	UJ	–	R	–		<0.14	UJ	<5.8	U	–		–		–		<0.14	UJ	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	<0.14	U	–	R	–	R	–	R	<0.29	U	–		–	R	<5.7	U	–		–		–		–	R	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	UJ	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		–	R	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	–	R	–		0.66		–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		0.34	J	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.15	UJ	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	UJ	<2.9	U	–		<1.4	U	<58	U	–		–		–		<0.14	UJ	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	0.75	ND	ND	0.21	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 UJ	<5 U	<5 U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	–	–	–	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	–
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	–	–	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	–
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	–	–	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	–	–	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	0.75	ND	ND	0.21	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–	–	–	<0.15 U	<0.092 U	<0.15 U	<1.6 U	<0.61 UJ	–	<0.51 U	<0.31 U	–	<0.31 U	<0.15 U	–
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–	–	–	<0.15 U	<0.091 U	<0.15 U	0.75 J	<0.61 UJ	–	<0.51 U	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.61 U	–	<0.51 U	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.61 U	–	0.21 J	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–	–	–	<0.15 U	<0.089 U	<0.15 U	<1.6 UJ	<0.59 U	–	<7.9 U	<0.3 UJ	–	<0.3 U	<0.15 U	–
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–	–	–	<0.15 U	<0.090 U	<0.15 U	<1.6 U	<0.60 U	–	<8.0 U	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	<0.14 UJ	<0.087 UJ	<0.14 UJ	<1.5 UJ	<0.58 UJ	–	<7.7 UJ	<0.29 UJ	–	– R	<0.14 UJ	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	– R	– R	– R	– R	– R	–	– R	– R	–	– R	– R	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	<0.14 UJ	<0.086 UJ	<0.14 UJ	<1.5 UJ	<0.57 UJ	–	<7.6 UJ	<0.29 UJ	–	<0.29 UJ	<0.14 UJ	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	– R	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	–	–	–	<0.14 UJ	<0.087 UJ	<0.14 UJ	<1.5 UJ	<0.58 UJ	–	<7.7 UJ	<0.29 UJ	–	<2.9 U	<1.4 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 UJ	<0.14 UJ	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	–	–	–	<0.14 UJ	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		2.3		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		0.33		ND		ND		ND		2.3		ND		0.19		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	–		<5	U	<5	U	<10	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	2.3		<5	U	<5	U	<10	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<10	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	UJ	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	0.33	ND	ND	ND	2.3	ND	0.19	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–	<0.092 U	<0.15 U	<0.31 U	<0.15 U	–	<0.31 U	<0.31 U	<0.092 U	<0.61 U	<0.15 U	–	<0.092 U	<0.15 U	<1 U
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	0.33 J	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	0.19 J	<1.0 U
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	– R	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	– R	– R
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–	<0.3 U	<0.15 U	<0.3 U	<0.15 U	–	<0.3 U	<0.3 U	<0.089 U	<0.3 U	<0.15 U	–	<0.089 U	<0.15 U	<0.98 U
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–	<0.30 U	<0.15 U	– R	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.30 U	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–	<0.29 UJ	<0.14 UJ	<0.29 UJ	<0.14 UJ	–	<0.29 UJ	<0.29 U	<0.087 UJ	– R	<0.14 UJ	–	<0.087 UJ	<0.14 U	– R
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–	– R	– R	– R	– R	–	– R	<0.29 U	– R	– R	– R	–	– R	<0.14 U	– R
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–	<0.29 UJ	<0.14 UJ	<0.29 UJ	<0.14 UJ	–	<0.29 UJ	<0.29 U	<0.086 UJ	– R	<0.14 UJ	–	<0.086 UJ	<0.14 U	<0.95 U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	– R
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	–	<0.29 UJ	<0.14 UJ	<2.9 U	<0.14 UJ	–	<0.29 UJ	<0.29 U	<0.087 UJ	<0.29 UJ	<0.14 UJ	–	<0.087 UJ	<0.14 U	<0.96 U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	–	<0.29 U	– R	– R	– R	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.26		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<5	U	<5	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	–		<5.0	U	–		<5.0	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	–		<5.2	U	–		<5.2	UJ
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	–		<5	U	–		<5	U
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	–		<4.9	U	–		<4.9	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.26		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		<0.61	U	<0.092	U	<3.3	U
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		<0.61	U	0.26	J	<3.2	U
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–	R	<0.091	U	<3.2	U
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		<0.57	U	<0.086	U	<3	U
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		<0.59	U	<0.089	U	<3.1	UJ
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	UJ
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		<0.58	U	–		–	R
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		<0.57	U	–		–	R
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		<0.57	U	–		<3.1	UJ
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	–		<0.58	U	–		<3.1	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<9.9	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene
						CAS No.	120-82-1	95-50-1	541-73-1	106-46-7	90-12-0	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2	606-20-2	91-58-7	95-57-8	91-57-6
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	70	10	5	5	10	1.9	4.9	0.3	120	14	0.25	0.05	–	0.18	10
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	<0.31 U	<0.15 U	<0.092 U	<0.092 U	–	<0.31 U	<0.31 U	<0.51 U	<0.51 U	<3.3 UJ	<0.31 U	<0.31 U	<0.15 U	<0.15 U	–
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	<0.30 U	<0.15 U	<0.091 U	<0.091 U	–	<0.30 U	<0.30 U	<0.50 U	<0.50 U	<3.2 UJ	<0.30 U	<0.30 U	<0.15 U	<0.15 U	–
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	<0.30 U	<0.15 U	<0.091 U	<0.091 U	–	<0.30 U	<0.30 U	<0.50 U	<0.50 U	<3.2 U	<0.30 U	<0.30 U	<0.15 U	<0.15 U	–
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	<0.28 U	<0.14 U	<0.085 U	<0.085 U	–	<0.28 U	<0.28 U	<0.47 U	<0.47 U	<3.0 UJ	<0.28 U	<0.28 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	<0.29 U	<0.15 U	<0.088 U	<0.088 U	–	<0.29 U	<0.29 U	<0.49 U	<0.49 U	<1.2 U	<0.29 U	<0.29 U	<0.15 U	<0.15 U	–
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	<0.30 U	<0.15 UJ	<0.090 U	<0.090 U	–	<0.30 U	<0.30 U	<0.50 UJ	<0.50 U	<1.2 UJ	<0.30 U	<0.30 U	<0.15 U	<0.15 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	– R	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	– R	<0.29 U	– R	<0.48 U	– R	<0.29 U	<0.29 U	<0.14 U	– R	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	– R	– R	<0.48 U	<0.48 U	<1.2 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.28 U	<0.14 U	<0.085 U	<0.085 U	–	<0.28 U	<0.28 U	<0.47 U	<0.47 U	<1.1 U	<0.28 U	<0.28 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	– R	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.29 U	<0.14 UJ	<0.086 U	<0.086 UJ	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 UJ	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<5	UJ	<5	UJ	<9.9	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<9.9	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	–	R	<5	UJ	<5	UJ
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	–		<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	2-Nitrophenol	3,3'-Dichlorobenzidine	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chlorophenol	4-Chlorophenyl phenyl ether	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene
						CAS No.	88-75-5	91-94-1	534-52-1	101-55-3	59-50-7	106-48-9	7005-72-3	100-02-7	83-32-9	208-96-8	120-12-7	103-33-3	92-87-5	56-55-3	50-32-8
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	–	0.17	–	–	–	–	–	–	15	13	0.02	–	–	0.027	0.06
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	ND	ND	ND	ND	ND	–	ND	ND	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	<0.15 U	<0.61 U	<1.2 UJ	<0.15 U	<0.31 U	–	<0.15 U	<6.1 U	–	–	–	<0.15 U	–	–	–
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	<0.15 U	<0.61 UJ	<1.2 UJ	<0.15 U	<0.30 U	–	<0.15 U	<6.1 U	–	–	–	<0.15 U	–	–	–
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	<0.15 U	<0.60 UJ	<1.2 UJ	<0.15 U	<0.30 U	–	<0.15 U	<6.0 U	–	–	–	<0.15 U	–	–	–
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	<0.14 U	<0.57 UJ	<1.1 U	<0.14 U	<0.28 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	<0.15 U	<0.29 U	<1.2 U	<0.15 U	<0.29 U	–	<0.15 U	<5.9 UJ	–	–	–	<0.15 U	–	–	–
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	<0.15 U	<0.30 UJ	<1.2 U	<0.15 U	<0.30 UJ	–	<0.15 UJ	<6.0 UJ	–	–	–	<0.15 UJ	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.14 U	<0.29 U	– R	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	– R	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	– R	<0.29 U	– R	<0.14 U	– R	–	<0.14 U	– R	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.14 U	<0.29 U	– R	<0.14 U	<0.29 U	–	<0.14 U	– R	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	– R	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.14 U	<0.28 UJ	<1.1 U	<0.14 U	<0.28 U	–	<0.14 U	<5.6 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.14 U	– R	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.14 U	<0.29 U	<1.2 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.14 UJ	– R	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	– R	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		3.8		ND		ND		0.34		ND		ND		0.15		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	3.8	ND	ND	0.34	ND	ND	0.15	ND	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–	–	–	<0.15 U	<0.092 U	<0.15 U	<1.6 U	<0.61 UJ	–	<0.51 U	<0.31 U	–	<0.31 U	<0.15 U	–
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–	–	–	<0.15 U	<0.091 U	<0.15 U	0.87 J	<0.61 UJ	–	<0.50 U	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.60 U	–	<0.50 U	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	0.34 J	<0.28 U	–	<0.28 U	<0.14 U	–
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	3.8 J+	<0.59 U	–	<7.8 U	<0.29 UJ	–	<0.29 U	<0.15 U	–
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–	–	–	<0.15 U	<0.090 U	<0.15 U	<1.6 U	<0.60 U	–	<8.0 U	<0.30 U	–	<0.30 UJ	<0.15 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	0.15 J	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	– R	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.56 U	–	<7.5 U	<0.28 U	–	<0.28 U	<0.14 U	–
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 UJ	<0.14 UJ	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 UJ	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	–	–	–	<0.14 UJ	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		0.19		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		0.14		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U	<5	U	<10	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<9.9	UJ
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	UJ	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	0.19	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	0.14	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–	<0.092 U	<0.15 U	<0.31 U	<0.15 U	–	<0.31 U	<0.31 U	<0.092 U	<0.61 U	<0.15 U	–	<0.092 U	<0.15 U	<1 U
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.60 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–	<0.085 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.57 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.98 U
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–	<0.30 UJ	<0.15 U	<0.30 UJ	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.30 UJ	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 UJ
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 UJ	<0.29 U	<0.14 U	–	<0.087 UJ	<0.14 U	– R
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 UJ	– R	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	0.19 J	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	– R
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	0.15 J	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.94 U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	–	<0.29 U	– R	– R	– R	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	0.14 J	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 UJ
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.097		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	–		<4.8	U	–		<4.8	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	–		<4.9	U	–		<4.9	UJ
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	–		<5.2	U	–		<5.2	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	–		<5	U	–		<5	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.097		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		<0.61	U	<0.092	U	<3.3	U
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		<0.61	U	0.097	J	<3.2	U
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		<0.57	U	<0.085	U	<3.0	U
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		<0.59	U	<0.088	U	<3.1	UJ
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		<0.60	U	<0.090	U	–	R
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		<0.58	U	–		–	R
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.56	U	–		<3	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.57	U	–		<3	UJ
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	UJ	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.29	UJ	<0.15	UJ	<0.088	UJ	<0.088	UJ	–		<0.29	UJ	<0.29	UJ	<0.49	UJ	<0.49	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.15	UJ	<0.15	UJ	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.29	UJ	<0.15	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	UJ	<0.29	UJ	<0.49	UJ	<0.49	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.15	UJ	<0.15	UJ	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	UJ	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	<0.15	U	<0.61	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.15	UJ	<0.29	UJ	<1.2	UJ	<0.15	UJ	<0.29	UJ	–		<0.15	UJ	<5.9	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.15	UJ	<0.29	UJ	<1.2	UJ	<0.15	UJ	<0.29	UJ	–		<0.15	UJ	<5.8	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.14	UJ	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.14	UJ	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
						Maximum Before 8/7/2022	–		–		–		ND		ND		ND		3.4		ND		–		ND		ND		–		0.3		ND		–	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		0.067		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	3.4	J	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		–		–		<0.15	U	<0.090	U	<1.5	UM	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.3	J	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		–	R	<0.14	UJ	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
						Maximum Before 8/7/2022	–		–		–		ND		ND		ND		3.4		ND		–		ND		ND		–		0.3		ND		–	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		0.067		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		<0.15	UJ	<0.088	UJ	<0.15	UJ	<1.6	UJ	<0.59	UJ	–		<7.8	UJ	<0.29	UJ	–		<0.29	UJ	<0.15	UJ	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		<0.15	UJ	<0.087	UJ	<0.15	UJ	<1.6	UJ	<0.58	UJ	–		<7.8	UJ	<0.29	UJ	–		<0.29	UJ	<0.15	UJ	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		**0.19**	J	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	**0.067**	J	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	0.36	ND	–	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	0.08	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	–	<5.0 U	<5.0 U	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	<9.9 U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.6 U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<9.7 U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–	<0.090 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 U	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 UJ
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.94 U
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 UJ	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.97 U
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–	<0.29 UJ	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 UJ	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	– R	<0.14 U	–	<0.086 U	<0.14 U	– R
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	0.36 J	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	– R	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	0.36	ND	–	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	0.08	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–	<0.29 UJ	<0.15 UJ	<0.29 UJ	<0.15 UJ	–	<0.29 UJ	<0.29 UJ	<0.088 UJ	<0.29 UJ	<0.15 UJ	–	<0.088 UJ	<0.15 UJ	– R
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–	<0.29 UJ	<0.15 UJ	<0.29 UJ	<0.15 UJ	–	<0.29 UJ	<0.29 UJ	<0.087 UJ	<0.29 UJ	<0.15 UJ	–	<0.087 UJ	<0.15 UJ	– R
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	– R
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.97 U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.98 U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	0.08 J	<0.96 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 UJ	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.28 UJ	<0.14 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	– R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 UJ	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 UJ	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		ND	
						Maximum Before 8/7/2022	–		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	–		<5.0	U	–		<5.0	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		<0.60	U	<0.090	U	<3.2	U
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		<0.61	U	<0.091	U	<3.2	U
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		<0.56	U	<0.085	U	<3.0	UJ
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		<0.58	U	<0.086	U	<3.1	U
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		<0.58	U	<0.087	U	<3.1	U
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		<0.57	U	<0.086	U	–	R
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		<0.57	U	–		–	R
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	UJ
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		<0.57	U	–		<3.1	UJ
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		ND	
						Maximum Before 8/7/2022	–		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		<0.59	UJ	–		<3.1	UJ
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		<0.58	UJ	–		<3.1	UJ
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		<0.59	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	–		<0.59	U	–		–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	–		<0.57	U	–		–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	–		<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<9.6	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	–	
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.1	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	<0.29	U	<0.15	UJ	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	UJ	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		–	R	<0.29	U	–	R	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		–	R	–	R	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<4.8	UJ	<4.8	UJ	<9.6	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<9.6	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	–		<4.8	UJ	<4.8	UJ
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	–		<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	<0.15	U	<0.58	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	UJ	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	UJ	–		<0.15	UJ	<5.9	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	UJ	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.2		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		0.46		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	UJ	–		<0.48	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	0.46	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.61 U	–	<0.50 U	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.5 UJ	<0.58 U	–	<7.7 U	<0.29 UJ	–	<0.29 U	<0.15 U	–
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.59 U	–	<7.8 U	<0.29 U	–	<0.29 UJ	<0.15 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.59 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	– R	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	<0.15 U	<0.089 U	<0.15 U	<1.6 U	<0.59 U	–	<7.9 U	<0.3 U	–	**0.2** J	<0.15 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.5 U	<0.28 U	–	<0.28 U	<0.14 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 UJ	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	–	–	–	<0.14 UJ	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	**0.46** J	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U	<5	U	<10	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	–		<4.8	UJ	<4.8	UJ	<9.6	UJ
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	UJ	<4.8	UJ	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		<0.087	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.58	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

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						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–	<0.29 UJ	<0.15 U	<0.29 UJ	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 UJ	<0.15 U	–	<0.088 U	<0.15 U	<0.98 U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 UJ
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–	<0.29 U	<0.15 UJ	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 UJ	<0.29 U	<0.15 U	–	<0.088 UJ	<0.15 U	– R
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	– R	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	– R
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	<0.3 U	<0.15 U	<0.3 U	<0.15 U	–	<0.3 U	<0.3 U	<0.089 U	<0.3 U	<0.15 U	–	<0.089 U	<0.15 U	<0.99 U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 UJ	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 UJ	<0.96 UJ
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.94 U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 UJ
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 UJ
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.3		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	–		<4.9	U	–		<4.9	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	–		<4.8	U	–		<4.8	UJ
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	–		<5.1	UJ	–		<5.1	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		<0.58	U	<0.087	U	<3.1	U
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		<0.60	U	0.3	J	<3.2	U
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–	

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Groundwater Sampling: RHMW05

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.3		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		<0.58	U	<0.086	U	<3.1	U
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		<0.58	U	<0.087	U	<3.1	UJ
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		<0.59	U	<0.088	U	–	R
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		<0.59	U	–		–	R
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		<0.57	U	–		<3.1	UJ
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		<0.59	U	–		<3.2	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.58	UJ	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.3	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	<0.30	U	<0.15	U	<0.089	U	<0.089	U	–		<0.30	U	<0.30	U	<0.49	U	<0.49	U	<1.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	R	<4.9	U	<4.9	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	UJ	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	<0.15	U	<0.30	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	UJ	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.14	U	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	UJ	–	R	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	UJ	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.14	UJ	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.15	U	<0.29	UJ	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.36		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<1.4	UQ	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	UJ	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		0.36	J+	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.59	U	–		<7.9	U	<0.30	U	–		0.15	J+	<0.15	U	–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		–	R	<0.14	UJ	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.7	UJ	<0.29	UJ	–		–	R	<0.14	UJ	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		<0.14	UJ	<0.087	UJ	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	0.19	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<9.9 U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 UJ	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<9.8 U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<4.9 UJ	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<9.8 U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 UJ	<4.8 UJ	<4.8 U	–	<4.8 U	<4.8 U	<9.6 U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	<10 U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	<10 U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 UJ
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 UJ	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 UJ
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.94 U
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 UJ	–	<0.086 U	<0.14 U	<0.95 U
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–	<0.30 U	<0.15 U	<0.30 UJ	<0.15 U	–	<0.30 U	0.26 J	<0.089 U	<0.30 U	<0.15 U	–	<0.089 U	<0.15 U	<0.99 U
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	– R	<0.14 U	–	<0.086 U	<0.14 U	– R
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–	<0.29 UJ	<0.14 UJ	<0.29 UJ	<0.14 UJ	–	<0.29 UJ	<0.29 U	<0.086 UJ	– R	<0.14 UJ	–	<0.086 UJ	<0.14 U	– R
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	– R	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	0.2 J	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–	<0.29 UJ	<0.14 UJ	<0.29 UJ	<0.14 UJ	–	<0.29 UJ	<0.29 UJ	<0.087 UJ	<0.29 UJ	<0.14 UJ	–	<0.087 UJ	<0.14 UJ	– R
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 UJ	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	– R
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.97 U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 UJ	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	0.19 J	<0.97 U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	–	<0.29 U	<0.19 UJ	<0.39 UJ	<0.19 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.16		ND	
						Maximum After 8/6/2022	–		0.67		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<5	U	<5	U	<5	U	<5	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	–		<4.9	U	–		<4.9	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	–		<4.8	U	–		<4.8	UJ
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	–		<5.2	U	–		<5.2	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	–		<5.2	U	–		<5.2	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		<0.61	U	<0.091	U	<3.3	U
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		<0.61	U	**0.16**	**J**	<3.2	U
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		<0.57	U	<0.085	U	<3.0	UJ
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		<0.57	U	<0.086	U	<3	U
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		<0.58	U	<0.086	U	<3.1	UJ
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		<0.59	U	<0.089	U	<3.2	U
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		<0.57	U	–		–	**R**
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		<0.57	U	–		–	**R**
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		<0.57	U	–		<3	UJ
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		<0.58	UJ	–		<3.1	UJ
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	–		**0.67**	**J**	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	–		<0.57	U	–		–	**R**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

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B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.2	U	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	UJ	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.29	UJ	<0.15	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.15	UJ	<0.15	UJ	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	R	<5.0	U	<5.0	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	R	<4.9	U	<4.9	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	<0.15	U	<0.62	U	<1.2	U	<0.15	U	<0.31	U	–		<0.15	U	<6.2	U	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.15	UJ	<0.29	UJ	<1.2	UJ	<0.15	UJ	<0.29	UJ	–		<0.15	UJ	<5.8	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.15	U	<0.29	UJ	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.14	U	–	R	<1.2	U	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
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Groundwater Sampling: RHMW08

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		4.9		ND		ND		ND		ND		ND		0.64		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	4.9	J	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	4	J	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		<0.15	U	<0.091	U	<1.5	UM	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.24	J	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		<0.15	U	<0.092	U	<0.15	U	<1.6	U	<0.62	U	–		<0.51	U	<0.31	U	–		<0.31	U	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		0.64	J+	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		0.2	J+	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		–	R	<0.14	UJ	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	4.9	ND	ND	ND	ND	ND	0.64	ND	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–	–	–	<0.15 UJ	<0.087 UJ	<0.15 UJ	<1.5 UJ	<0.58 UJ	–	<7.7 UJ	<0.29 UJ	–	<0.29 UJ	<0.15 UJ	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.15 U	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–	–	–	<0.15 U	<0.089 U	<0.15 U	<1.6 U	<0.59 U	–	<7.9 U	<0.3 U	–	<0.3 U	<0.15 U	–
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.068		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		0.087		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.7	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	UJ	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		<0.092	U	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.092	U	<0.62	U	<0.15	U	–		<0.092	U	<0.15	U	<1.0	U
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	UJ	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	0.068	J	<1.0	UJ
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	UJ	–		<0.085	U	<0.14	U	<0.95	U
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	–	R	<0.14	U	–		<0.087	U	<0.14	U	–	R
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.068		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		0.087		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		<0.29	UJ	<0.15	UJ	<0.29	UJ	<0.15	UJ	–		<0.29	UJ	<0.29	UJ	<0.087	UJ	<0.29	UJ	<0.15	UJ	–		<0.087	UJ	<0.15	UJ	–	R
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	–	R
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	UJ	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	**0.087**	**J**	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.097		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	–		<4.9	U	–		<4.9	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	–		<4.9	U	–		<4.9	UJ
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	–		<5	U	–		<5	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	–		<5	U	–		<5	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		<0.60	U	<0.091	U	<3.2	U
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		<0.62	U	0.097	J	<3.3	U
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		<0.57	U	<0.085	U	<3.0	UJ
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		<0.57	U	<0.085	U	<3	U
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		<0.57	U	<0.085	U	<3.0	UJ
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		<0.57	U	<0.086	U	<3.0	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		<0.58	U	–		–	R
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		<0.57	U	–		<3	UJ
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		<0.58	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.097		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		<0.58	UJ	–		<3.1	UJ
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		<0.59	U	–		<3.2	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	–		<0.57	U	–		–	R
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	–	R	–	R	–	R	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.28	UJ	<0.14	U	<0.085	U	<0.085	U	–		<0.29	UJ	<0.28	U	<0.48	UJ	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	UJ	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	R	<5.2	U	<5.2	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	–		–		–		<5	U	–		–		–	
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.14	UJ	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		3.3		0.36		ND		ND		ND		ND		0.44		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		0.23		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	3.3	J	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<1.5	UQ	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		0.44	J+	<0.15	U	–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	UJ	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	–	R	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	0.36	J	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	U	–		<0.29	U	0.23	J	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	UJ	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<5 U	<10 U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 UJ	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<10 U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 UJ	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.6 U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<9.8 U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	<10 U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<9.9 U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–	<0.090 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 UJ	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 UJ	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 UJ
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 UJ
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 UJ	<0.087 U	<0.29 U	<0.14 UJ	–	<0.087 U	<0.14 UJ	<0.96 UJ
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 UJ	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 UJ
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	– R	<0.086 UJ	<0.29 U	<0.14 U	–	<0.086 U	– R	– R
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 UJ	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.97 U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 UJ
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 UJ	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	–	<0.3 U	<0.15 U	<0.3 U	<0.15 U	–	<0.3 U	<0.3 U	<0.091 U	<0.3 U	<0.15 U	–	<0.091 U	<0.15 U	<1 U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	–	<0.29 U	– R	– R	– R	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		0.18		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<5	U	<5	U	<5	U	<5	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	–		<5.2	U	–		<5.2	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	–		<5	U	–		<5	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	UJ
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		<0.61	U	**0.18**	**J**	<3.2	U
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		<0.58	UJ	<0.087	U	<3.1	U
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		<0.58	U	<0.086	U	<3.1	U
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–	**R**	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	–		<0.61	U	–		<3.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

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B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<0.095	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<0.095	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	UJ	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.0	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		–	R	<0.29	U	–	R	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	–	R	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	<0.14	U	<0.57	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.14	U	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		–	R	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–	R	<0.29	U	–	R	<0.15	U	–	R	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.14	U	–	R	<1.1	U	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.14	UJ	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.31		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		<0.15	U	<0.091	U	<1.5	UM	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.31	J	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		–	R	<0.14	UJ	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	

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Groundwater Sampling: RHMW12A

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31	ND	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.59 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 UJ	<0.14 UJ	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 UJ	<0.28 U	–	<0.28 U	<0.14 U	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: RHMW12A

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<0.095	U	<4.8	U	<4.8	U	<9.5	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	UJ

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	–	R
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	UJ	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	–		<4.9	U	–		<4.9	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	–		<5.1	U	–		<5.1	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		<0.60	U	<0.091	U	<3.2	U
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		<0.57	U	<0.086	U	<3.0	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		<0.57	U	<0.085	U	<3.0	UJ
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		<0.57	U	<0.085	U	<3.0	UJ
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	UJ
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		<0.58	U	<0.086	U	<3.1	UJ
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	UJ
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.0	UJ
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		<0.57	U	–		–	R
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		<0.57	U	–		<3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		<0.57	U	–		–	R
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		<0.59	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	R	<4.8	U	<4.8	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	<0.15	U	<0.60	U	<1.2	UM	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		5		ND		ND		ND		ND		ND		0.27		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		0.28		–		ND		ND		–		ND		1.6		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	2.1	J	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<1.5	UMQ	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.27	J	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	0.8	J	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	5		<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	UJ	0.28	J	–		<7.7	UJ	<0.29	U	–		<0.29	U	1.6	J	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

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[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

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B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		0.12		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<10	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	UJ	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		<0.090	UJ	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		**0.12**	**J**	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	UJ
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	–		<5.0	U	–		<5.0	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	–		<5.2	U	–		<5.2	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	–		<5.2	U	–		<5.2	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	–		<5.2	U	–		<5.2	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	UJ
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		<0.56	U	<0.085	U	<3.0	UJ
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		<0.57	U	<0.085	U	<3	U
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		<0.57	U	<0.086	U	–	R
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		<0.61	U	–		<3.2	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		<0.59	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		<0.6	U	–		<3.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<3.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.51	U	<0.51	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	<0.15	U	<0.6	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	–	R	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.15	U	<0.3	UJ	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.15	U	<0.3	UJ	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.15	U	<0.3	UJ	–	R	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.14	U	–	R	<1.2	U	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		16		ND		ND		ND		ND		ND		0.44		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	16		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.6	UJ	–		<0.5	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.60	U	–		<0.50	U	<0.30	UJ	–		<0.30	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		0.44	J+	<0.15	U	–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		<0.14	U	<0.085	UJ	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		–	R	<0.15	UJ	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	5.6	J	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	2.3	J	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	14	J	<0.59	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	2	J	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	<4.9	U	<9.7	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<10	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		<0.091	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.6	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	UJ	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	UJ
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		<0.28	U	<0.14	UJ	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	UJ
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	–	R	<0.15	U	–		<0.088	U	<0.15	U	–	R
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	UJ	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	UJ	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	–	R
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	UJ	<0.96	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	–		<0.29	U	<0.15	UJ	<0.29	UJ	<0.15	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	–		<5.0	U	–		<5.0	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	–		<5.2	U	–		<5.2	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		<0.6	U	<0.091	U	<3.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		<0.57	U	<0.085	U	<3	UJ
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		<0.57	U	<0.086	U	<3	U
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		<0.57	U	<0.085	U	<3.0	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		<0.58	U	–		–	R
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		<0.61	U	–		<3.2	UJ
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		<0.59	U	–		<3.2	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		<0.6	U	–		<3.2	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	–		<0.57	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<0.097	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<0.097	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<1.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	UJ	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	UJ	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		–	R	<0.29	U	–	R	<0.48	U	–	R	<0.29	U	<0.29	U	<0.15	U	–	R	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		–	R	–	R	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.3	UJ	<0.15	UJ	<0.09	UJ	<0.09	UJ	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	UJ	<0.3	UJ	<0.15	UJ	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	–		<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	UM	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	<0.15	U	<0.30	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–	R	<0.29	U	–	R	<0.15	U	–	R	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.15	U	<0.3	UJ	<1.2	U	<0.15	UJ	<0.3	U	–		<0.15	UJ	<6	U	–		–		–		<0.15	UJ	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	UJ	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		4.5		ND		ND		ND		ND		ND		0.27		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		0.98		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	4.5	J	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		–		–		<0.15	U	<0.091	U	<1.5	UM	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.27	J	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<8.0	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		0.14	J	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	–	R	–		<0.29	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		<0.15	UJ	<0.09	UJ	<0.15	UJ	<1.6	UJ	<0.6	UJ	–		<8	UJ	<0.3	UJ	–		<0.3	UJ	<0.15	UJ	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.59	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	UJ	<0.6	UJ	–		<8.1	UJ	<0.3	U	–		<0.3	U	0.98	J	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		0.1		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<0.097	U	<4.9	U	<4.9	U	<9.7	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	UJ	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<10	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		<0.30	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.30	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.95	UJ
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		<0.29	UJ	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	UJ	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		<0.29	U	<0.15	UJ	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	UJ	<0.29	U	<0.15	U	–		<0.088	UJ	<0.15	U	–	R
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	–	R
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		<0.3	UJ	<0.15	UJ	<0.3	UJ	<0.15	UJ	–		<0.3	UJ	<0.3	U	<0.09	UJ	<0.3	UJ	<0.15	UJ	–		<0.09	UJ	<0.15	U	<1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	–		<0.3	U	<0.15	UJ	<0.3	U	<0.15	U	–		0.1	J	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	UJ
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	–		<5.2	U	–		<5.2	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	–		<5.2	U	–		<5.2	UJ
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	–		<5.0	U	–		<5.0	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	–		<5	U	–		<5	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		<0.60	U	<0.091	U	<3.2	U
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	UJ
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		<0.57	UJ	<0.086	U	<3.1	U
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	UJ
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		<0.57	U	<0.086	U	–	R
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		<0.58	U	–		–	R
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		<0.57	U	–		<3.2	UJ
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		<0.6	U	–		<3.2	UJ
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		<0.59	U	–		<3.2	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	–		<0.6	U	–		<3.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<0.11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<0.11	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	UJ	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.31	UJ	<0.16	UJ	<0.093	UJ	<0.093	UJ	–		<0.31	U	<0.31	U	<0.52	U	<0.52	U	<1.2	U	<0.31	UJ	<0.31	UJ	<0.16	UJ	<0.16	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.51	U	<0.51	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	R	<5.0	U	<5.0	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	–		–		–		<5	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	UJ	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	UJ	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.16	U	<0.31	UJ	<1.2	U	<0.16	UJ	<0.31	U	–		<0.16	UJ	–	R	–		–		–		–	R	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.15	U	<0.3	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		38		ND		ND		0.26		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	UJ	<5.3	U	<5.3	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		38		<5	U	–		<5	U	<5	U	–	
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<1.5	U	<1.6	UJ	<0.60	UJ	–		<0.50	U	<0.30	U	–		0.15	J	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<1.5	UM	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	UJ	<1.6	UJ	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		0.26	J+	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		<0.16	UJ	<0.093	UJ	<0.16	UJ	<1.7	UJ	<0.62	UJ	–		<8.3	UJ	<0.31	UJ	–		<0.31	UJ	<0.16	UJ	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	–	R	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	UJ	<0.11	U	<5.3	U	<5.3	U	<11	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	UJ	<5.1	UJ	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<9.9	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	UJ
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	UJ
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.96	UJ
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		<0.31	UJ	<0.16	UJ	–	R	<0.16	UJ	–		<0.31	UJ	<0.31	U	<0.093	UJ	–	R	<0.16	UJ	–		<0.093	UJ	<0.16	U	<1	UJ
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	UJ	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.087	UJ	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<5.3	U	<5.3	U	<5.3	U	<5.3	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	–		<4.9	U	–		<4.9	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	–		<5.1	U	–		<5.1	UJ
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	–		<5	U	–		<5	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	–		<5.1	U	–		<5.1	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		<0.57	UJ	<0.086	U	<3.1	U
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	UJ
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		<0.59	U	<0.088	U	<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		<0.62	UJ	–		–	R
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		<0.61	U	–		<3.2	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		<0.57	U	–		<3	UJ
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		<0.59	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		<0.6	U	–		<3.2	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		<0.61	U	–		<3.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:

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[2] - Bailer method – sample without purging and from the top of the water column.

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D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<0.095	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<0.095	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	UJ	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	UJ	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene
						CAS No.	120-82-1	95-50-1	541-73-1	106-46-7	90-12-0	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2	606-20-2	91-58-7	95-57-8	91-57-6
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	70	10	5	5	10	1.9	4.9	0.3	120	14	0.25	0.05	–	0.18	10
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	– R	<0.29 U	– R	<0.48 U	– R	<0.29 U	<0.29 U	<0.14 U	– R	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.29 U	<0.15 U	<0.088 U	<0.088 U	–	<0.29 U	<0.29 U	<0.49 U	<0.49 U	<1.2 U	<0.29 U	<0.29 U	<0.15 U	<0.15 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	– R	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.28 U	<0.14 U	<0.085 U	<0.085 U	–	<0.28 U	<0.28 U	<0.47 U	<0.47 U	<1.1 U	<0.28 U	<0.28 U	<0.14 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.14	UJ	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		2.2		ND		ND		ND		ND		ND		0.23		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	**2.2**	**J**	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		–		–		**<0.15**	**U**	**<0.090**	**U**	**<1.5**	**UM**	**<1.6**	**U**	**<0.60**	**U**	–		**<0.50**	**U**	**<0.30**	**U**	–		**0.23**	**J**	**<0.15**	**U**	–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	**1.3**	**J**	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	0.23	ND	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 UJ	<0.14 UJ	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<0.095	U	<4.8	U	<4.8	U	<9.5	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<10	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		<0.29	UJ	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	UJ	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		<0.29	UJ	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	UJ	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	–	R
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U

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							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

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						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	–		<5.0	U	–		<5.0	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		<0.60	U	<0.090	U	<3.2	U
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	UJ
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		<0.57	U	<0.085	U	<3.0	UJ
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		<0.57	U	<0.086	U	<3.0	UJ
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		<0.57	U	<0.085	U	<3.0	UJ
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		<0.58	U	<0.086	U	<3.1	UJ
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		<0.58	U	<0.086	U	–	R
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	–	R
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		<0.57	U	–		–	R
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		<0.57	U	–		<3.1	UJ

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Groundwater Sampling: RHMW16

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	UJ	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	2-Nitrophenol	3,3'-Dichlorobenzidine	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chlorophenol	4-Chlorophenyl phenyl ether	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene
						CAS No.	88-75-5	91-94-1	534-52-1	101-55-3	59-50-7	106-48-9	7005-72-3	100-02-7	83-32-9	208-96-8	120-12-7	103-33-3	92-87-5	56-55-3	50-32-8
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	–	0.17	–	–	–	–	–	–	15	13	0.02	–	–	0.027	0.06
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	–	ND	ND	–	–	–	ND	–	–	–
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	–	ND	ND	–	–	–	ND	–	–	–
						Maximum After 8/6/2022	ND	ND	ND	ND	ND	–	ND	ND	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	<0.14 U	<0.29 UJ	– R	<0.14 U	<0.29 U	–	<0.14 U	– R	–	–	–	<0.14 UJ	–	–	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 UJ	–	–	–	<0.14 U	–	–	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	<0.14 U	<0.28 UJ	<1.1 U	<0.14 U	<0.28 U	–	<0.14 U	<5.6 U	–	–	–	<0.14 U	–	–	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	<0.14 U	<0.29 UJ	<1.2 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	<0.15 U	<0.29 U	<1.2 U	<0.15 U	<0.29 U	–	<0.15 U	<5.9 U	–	–	–	<0.15 U	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	<0.14 U	<0.29 UJ	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	<0.14 UJ	<0.29 U	<1.2 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	<0.15 U	<0.29 UJ	<1.2 U	<0.15 U	<0.29 U	–	<0.15 U	<5.9 U	–	–	–	<0.15 U	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When the
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screenir
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. Tl
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
						Maximum Before 8/7/2022	–	–	–	ND	ND	ND	11	ND	–	ND	ND	–	ND	ND	–
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	3.8	ND	–	ND	0.19	–	0.83	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	3.1	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.56 U	–	<7.5 U	<0.28 U	–	<0.28 U	<0.14 U	–
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	11	<0.59 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	3.8	<0.57 U	–	<7.6 U	0.19 J	–	<0.29 U	<0.14 U	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.59 U	–	<7.8 U	<0.29 U	–	0.83 J	<0.15 U	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–

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ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	0.091	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.94 U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.98 U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	0.091 J	<0.95 U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 UJ	<0.14 UJ	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.98 U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U

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Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		–		ND	
						Maximum Before 8/7/2022	–		ND		–		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–		<0.57	U	–		<3	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–		<0.57	U	–		<3.1	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–		<0.56	U	–		<3	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	–		<0.59	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	–		<0.57	U	–		<3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	–		<0.59	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	–		<0.58	U	–		<3.1	U

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Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene
						CAS No.	120-82-1	95-50-1	541-73-1	106-46-7	90-12-0	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2	606-20-2	91-58-7	95-57-8	91-57-6
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	70	10	5	5	10	1.9	4.9	0.3	120	14	0.25	0.05	–	0.18	10
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
						Maximum Before 8/7/2022	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
						Maximum After 8/6/2022	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<9.6 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<10 U	<5 U	<5 U	<5 U	<5 U	–
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	<10 U	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<10 U	<5 U	<5 U	<5 U	<5 U	–
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<10 U	<5 U	<5 U	<5 U	<5 U	–
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<9.6 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<10 U	<5 U	<5 U	<5 U	<5 U	–
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<9.5 UJ	<4.8 U	<4.8 U	<4.8 UJ	<4.8 U	–
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	<0.30 U	<0.15 U	<0.091 U	<0.091 U	–	<0.30 U	<0.30 U	<0.50 U	<0.50 U	<3.2 U	<0.30 U	<0.30 U	<0.15 U	<0.15 U	–
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	<0.30 U	<0.15 U	<0.091 U	<0.091 U	–	<0.30 U	<0.30 U	<0.51 U	<0.51 U	<3.2 U	<0.30 U	<0.30 U	<0.15 U	<0.15 U	–
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	<0.30 U	<0.15 U	<0.091 U	<0.091 U	–	<0.30 U	<0.30 U	<0.50 U	<0.50 U	<3.2 U	<0.30 U	<0.30 U	<0.15 U	<0.15 U	–
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	<0.30 U	<0.15 U	<0.090 U	<0.090 U	–	<0.30 U	<0.30 U	<0.50 U	<0.50 U	<3.2 U	<0.30 U	<0.30 U	<0.15 U	<0.15 U	–
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 UJ	<0.29 UJ	<0.48 UJ	– R	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	– R	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.3 U	<0.15 U	<0.091 U	<0.091 U	–	<0.3 U	<0.3 U	<0.5 U	<0.5 U	<1.2 U	<0.3 U	<0.3 U	<0.15 U	<0.15 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	– R	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.29 UJ	<0.14 U	<0.087 U	<0.087 U	–	<0.29 UJ	<0.29 U	<0.48 UJ	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 UJ	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	2-Nitrophenol	3,3'-Dichlorobenzidine	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chlorophenol	4-Chlorophenyl phenyl ether	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene
						CAS No.	88-75-5	91-94-1	534-52-1	101-55-3	59-50-7	106-48-9	7005-72-3	100-02-7	83-32-9	208-96-8	120-12-7	103-33-3	92-87-5	56-55-3	50-32-8
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	–	0.17	–	–	–	–	–	–	15	13	0.02	–	–	0.027	0.06
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	–	–	–	ND	–	–	–
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	–	–	–	ND	–	–	–
						Maximum After 8/6/2022	ND	ND	ND	ND	ND	–	ND	ND	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<4.8 U	<4.8 U	<9.6 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<9.6 U	–	–	–	<4.8 U	–	–	–
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<5 U	<5 U	<10 U	<5 U	<5 U	<5 U	<5 U	<10 U	–	–	–	<5 U	–	–	–
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<5.1 U	<5.1 U	<10 U	<5.1 U	<5.1 U	<5.1 U	<5.1 U	<10 U	–	–	–	<5.1 U	–	–	–
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<5 U	<5 U	<10 U	<5 U	<5 U	<5 U	<5 U	<10 U	–	–	–	<5 U	–	–	–
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<5 U	<5 U	<10 U	<5 U	<5 U	<5 U	<5 U	<10 U	–	–	–	<5 U	–	–	–
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<4.8 U	<4.8 U	<9.6 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<9.6 U	–	–	–	<4.8 U	–	–	–
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<5 U	<5 U	<10 U	<5 U	<5 U	<5 U	<5 U	<10 U	–	–	–	<5 U	–	–	–
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<4.8 U	<4.8 U	<9.5 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<9.5 U	–	–	–	<4.8 U	–	–	–
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	<0.15 U	<0.60 U	<1.2 U	<0.15 U	<0.30 U	–	<0.15 U	<6.0 U	–	–	–	<0.15 U	–	–	–
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	<0.15 U	<0.61 U	<1.2 U	<0.15 U	<0.30 U	–	<0.15 U	<6.1 U	–	–	–	<0.15 U	–	–	–
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	<0.15 U	<0.60 UJ	<1.2 U	<0.15 U	<0.30 U	–	<0.15 U	<6.0 U	–	–	–	<0.15 U	–	–	–
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	<0.15 U	<0.60 U	<1.2 U	<0.15 U	<0.30 U	–	<0.15 U	<6.0 U	–	–	–	<0.15 U	–	–	–
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	<0.14 U	<0.29 UJ	<1.1 U	<0.14 U	<0.29 UJ	–	<0.14 U	<5.7 UJ	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	<0.14 U	<0.29 UJ	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.14 U	<0.29 U	– R	<0.14 U	<0.29 U	–	<0.14 U	<5.8 UJ	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.14 U	<0.29 U	– R	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.14 U	<0.29 UJ	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	– R	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 UJ	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15 U	<0.3 U	<1.2 U	<0.15 U	<0.3 U	–	<0.15 U	<6.1 U	–	–	–	<0.15 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.14 U	<0.29 U	<1.2 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.14 UJ	<0.29 U	– R	<0.14 U	<0.29 U	–	<0.14 U	– R	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 UJ	–	–	–	<0.14 U	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
						Maximum Before 8/7/2022	–	–	–	ND	ND	ND	3.6	ND	–	ND	ND	–	0.34	ND	–
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	1.7	ND	–	ND	ND	–	ND	0.15	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	2.9 J	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	–	–	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	–	–	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	–
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	–	–	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	–	–	–	<5 U	<5 U	<5 U	3.6 J	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	–	–	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.60 UJ	–	<0.50 U	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.61 U	–	<0.51 U	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.60 U	–	<0.50 U	<0.30 U	–	<0.30 U	<0.15 U	–
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–	–	–	<0.15 U	<0.090 U	<0.15 UJ	<1.6 UJ	<0.60 U	–	<0.50 U	<0.30 U	–	<0.30 UJ	<0.15 U	–
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.57 U	–	<7.6 U	<0.29 UJ	–	0.34 J+	<0.14 U	–
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 UJ	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	1.1 J	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	1 J	<0.58 U	–	<7.7 U	– R	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.61 U	–	<8.1 U	<0.3 U	–	<0.3 U	<0.15 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 UJ	<0.14 UJ	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	1.7 J	<0.58 U	–	<7.7 UJ	<0.29 UJ	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.57 UJ	–	<7.7 UJ	<0.29 U	–	<0.29 U	0.15 J	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 UJ	<0.58 UJ	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 UJ	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.6 U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	<10 U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.6 U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.60 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.60 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–	<0.090 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 U	<0.15 U	–	<0.090 U	<0.15 U	<1.0 UJ
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 UJ	<0.086 U	<0.29 U	<0.14 UJ	–	<0.086 U	<0.14 UJ	<0.96 UJ
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 UJ	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 UJ
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 UJ	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.087 UJ	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.97 UJ
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 UJ	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	–	<0.3 U	<0.15 U	<0.3 U	<0.15 U	–	<0.3 U	<0.3 U	<0.091 U	<0.3 U	<0.15 U	–	<0.091 U	<0.15 U	<1 U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	–	<0.29 U	– R	– R	– R	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		ND	
						Maximum Before 8/7/2022	–		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	–		<5	U	–		<5	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	–		<5.1	U	–		<5.1	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	–		<5	U	–		<5	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	–		<5	U	–		<5	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	–		<5	U	–		<5	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		<0.57	UJ	<0.086	U	<3.1	U
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		<0.58	U	<0.087	U	<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	–		<0.61	U	–		<3.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	–		<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<10	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	–		<5	UJ	<5	UJ	<5	UJ	<5	UJ	<10	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	–		<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	UJ	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	U	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene
						CAS No.	120-82-1	95-50-1	541-73-1	106-46-7	90-12-0	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2	606-20-2	91-58-7	95-57-8	91-57-6
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	70	10	5	5	10	1.9	4.9	0.3	120	14	0.25	0.05	–	0.18	10
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.28 U	<0.14 U	<0.085 U	<0.085 U	–	<0.28 U	<0.28 U	<0.47 U	<0.47 U	<1.1 UJ	<0.28 U	<0.28 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.28 U	<0.14 U	<0.085 U	<0.085 U	–	<0.28 U	<0.28 U	<0.47 U	<0.47 U	<1.1 U	<0.28 U	<0.28 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.28 U	<0.14 U	<0.085 U	<0.085 U	–	<0.28 U	<0.28 U	<0.47 U	<0.47 U	<1.1 UJ	<0.28 U	<0.28 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.29 U	<0.15 U	<0.088 U	<0.088 U	–	<0.29 U	<0.29 U	<0.49 U	<0.49 U	<1.2 U	<0.29 U	<0.29 U	<0.15 U	<0.15 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.29 U	<0.15 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.15 U	<0.15 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.29 U	<0.14 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	R	<4.9	U	<4.9	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	–	R	<5	U	<5	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	–	R	<5	U	<5	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<5.1	UJ	<5.1	UJ	<10	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<10	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	–		<5.1	UJ	<5.1	UJ
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<5	UJ	<5	UJ	<10	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<10	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	–		<5	UJ	<5	UJ
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	–		<4.9	UJ	<4.9	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	–		<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	–		<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	–		<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	–		–		–		<5	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.31	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.31	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	UJ	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	2-Nitrophenol	3,3'-Dichlorobenzidine	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chlorophenol	4-Chlorophenyl phenyl ether	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene
						CAS No.	88-75-5	91-94-1	534-52-1	101-55-3	59-50-7	106-48-9	7005-72-3	100-02-7	83-32-9	208-96-8	120-12-7	103-33-3	92-87-5	56-55-3	50-32-8
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	–	0.17	–	–	–	–	–	–	15	13	0.02	–	–	0.027	0.06
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	–	ND	ND
						Maximum After 8/6/2022	ND	ND	ND	ND	ND	–	ND	ND	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	– R	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.14 U	<0.29 UJ	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.14 U	<0.28 UJ	<1.1 UJ	<0.14 U	<0.28 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.14 U	<0.28 U	<1.1 U	<0.14 U	<0.28 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.14 U	<0.29 U	<1.1 UJ	<0.14 U	<0.29 U	–	<0.14 U	<5.7 UJ	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.14 U	<0.28 U	<1.1 UJ	<0.14 U	<0.28 U	–	<0.14 U	<5.7 UJ	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.14 U	<0.29 UJ	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.14 U	<0.29 UJ	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.14 U	<0.29 UJ	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.14 U	<0.29 UJ	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 UJ	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.14 U	<0.29 UJ	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.14 U	<0.29 UJ	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.14 U	<0.29 UJ	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.14 U	<0.29 UJ	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 UJ	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 UJ	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.14 U	<0.29 UJ	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.15 UJ	<0.29 U	<1.2 U	<0.15 U	<0.29 U	–	<0.15 U	<5.8 U	–	–	–	<0.15 U	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.14 UJ	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.15 U	<0.29 UJ	<1.2 U	<0.15 U	<0.29 U	–	<0.15 U	<5.8 U	–	–	–	<0.15 U	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.14 U	<0.29 UJ	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	<5.7 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.14 U	<0.29 U	<1.2 U	<0.14 U	<0.29 U	–	<0.14 U	<5.8 U	–	–	–	<0.14 U	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.14 U	<0.29 U	<1.1 U	<0.14 U	<0.29 U	–	<0.14 U	– R	–	–	–	<0.14 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		118		ND		ND		9.2		ND		ND		0.4		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	118		<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	54		<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	2.4	J-	<5	UJ	<5	UJ	4.6	J-	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	9.2	J-	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	2.6	J	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		2.9	J	<5	U	–		<5	U	<5	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		3.1	J	<5	U	–		<5	U	<5	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	3.9	J	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		118		ND		ND		9.2		ND		ND		0.4		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<1.5	UQ	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<1.5	UMQ	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.092	U	<0.15	U	**0.78**	J	<0.61	U	–		<0.51	U	<0.31	U	–		<0.31	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.092	U	<0.15	U	**1.4**	J	<0.61	U	–		<0.51	U	<0.31	U	–		<0.31	UJ	<0.15	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	**5.2**	J+	<0.57	U	–		<7.6	U	<0.29	UJ	–		**0.34**	J+	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	**1.5**	J	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	118	ND	ND	9.2	ND	ND	0.4	ND	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	0.4 J	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	2.8 J	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 UJ	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 UJ	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 UJ	<0.14 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 UJ	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	–	–	–	<0.14 U	<0.086 UJ	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 UJ	<0.29 U	–	<0.29 U	<0.15 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.5 UJ	<0.58 UJ	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.15 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.57 UJ	–	<7.6 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	<4.9	U	<9.7	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U	<5	U	<9.9	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U	<5	U	<9.9	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	–		<5.1	UJ	<5.1	UJ	<10	UJ
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	–		<5	UJ	<5	UJ	<10	UJ
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	–		<4.9	UJ	<4.9	UJ	<9.7	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	–		–		<5.0	U	<5.0	U	<9.9	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	–		–		<4.9	U	<4.9	U	<9.7	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	–		–		<5.0	U	<5.0	U	<10	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	UJ	<5.0	U	–		<5.0	U	<5.0	U	<9.9	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	UJ	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.7	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.7	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<9.9	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<9.7 U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<9.8 U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.6 U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 UJ	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–	<0.090 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 UJ	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–	<0.092 U	<0.15 U	<0.31 U	<0.15 U	–	<0.31 U	<0.31 U	<0.092 U	<0.61 U	<0.15 U	–	<0.092 U	<0.15 U	<1.0 U
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.61 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–	<0.092 UJ	<0.15 U	<0.31 U	<0.15 U	–	<0.31 U	<0.31 U	<0.092 U	<0.61 U	<0.15 U	–	<0.092 U	<0.15 U	<1.0 U
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–	<0.090 UJ	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 U	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 UJ	<0.086 U	<0.29 U	<0.14 UJ	–	<0.086 U	<0.14 UJ	<0.95 UJ
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 UJ	<0.086 U	<0.29 U	<0.14 UJ	–	<0.086 U	<0.14 UJ	<0.95 UJ
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 UJ	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 UJ	<0.95 UJ
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 UJ	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.98 U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 UJ	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	– R	<0.15 U	–	<0.088 U	<0.15 U	<0.97 U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	– R	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	UJ
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	UJ
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	–		<5.0	U	–		<5.0	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	–		<4.9	U	–		<4.9	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	–		<5.0	U	–		<5.0	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	–		<5.2	U	–		<5.2	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V					–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	–		<5.0	U	–		<5.0	UJ
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	–		<5.2	U	–		<5.2	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V					–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V					–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	–		<4.9	U	–		<4.9	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V					–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	–		<5	U	–		<5	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V					–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	–		<5	U	–		<5	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V					–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	–		<5	U	–		<5	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V					–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V					–		–	

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V					–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V					–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	–		<5	U	–		<5	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	–		<5	U	–		<5	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	UJ
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	UJ
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		<0.61	U	<0.092	U	<3.3	U
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		<0.61	U	<0.092	U	<3.3	U
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		<0.58	U	<0.086	U	<3.1	U
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		<0.57	UJ	<0.086	U	<3.0	U
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		<0.57	UJ	<0.086	U	<3.1	U
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		<0.58	U	<0.087	U	<3.1	U
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		<0.57	UJ	<0.086	U	<3.0	U
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		<0.57	U	<0.086	U	–	R
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		<0.59	U	<0.088	U	–	R
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		<0.57	U	–		<3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		<0.57	U	–		<3.1	UJ
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<0.57	U	–		<3	UJ
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

						Analyte	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene
						CAS No.	120-82-1	95-50-1	541-73-1	106-46-7	90-12-0	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2	606-20-2	91-58-7	95-57-8	91-57-6
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	70	10	5	5	10	1.9	4.9	0.3	120	14	0.25	0.05	–	0.18	10
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Current Maximum	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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

						Analyte	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene
						CAS No.	120-82-1	95-50-1	541-73-1	106-46-7	90-12-0	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2	606-20-2	91-58-7	95-57-8	91-57-6
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	70	10	5	5	10	1.9	4.9	0.3	120	14	0.25	0.05	–	0.18	10
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Current Maximum	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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

						Analyte	2-Nitrophenol	3,3'-Dichlorobenzidine	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chlorophenol	4-Chlorophenyl phenyl ether	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene
						CAS No.	88-75-5	91-94-1	534-52-1	101-55-3	59-50-7	106-48-9	7005-72-3	100-02-7	83-32-9	208-96-8	120-12-7	103-33-3	92-87-5	56-55-3	50-32-8
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	–	0.17	–	–	–	–	–	–	15	13	0.02	–	–	0.027	0.06
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Current Maximum	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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						Analyte	2-Nitrophenol	3,3'-Dichlorobenzidine	4,6-Dinitro-2-methylphenol	4-Bromophenyl phenyl ether	4-Chloro-3-methylphenol	4-Chlorophenol	4-Chlorophenyl phenyl ether	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Azobenzene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene
						CAS No.	88-75-5	91-94-1	534-52-1	101-55-3	59-50-7	106-48-9	7005-72-3	100-02-7	83-32-9	208-96-8	120-12-7	103-33-3	92-87-5	56-55-3	50-32-8
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	–	0.17	–	–	–	–	–	–	15	13	0.02	–	–	0.027	0.06
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Current Maximum	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the s

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample we

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Current Maximum	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Current Maximum	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the s

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample we

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Current Maximum	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum before 2/04/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Current Maximum	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the s

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample we

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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						Analyte	Phenanthrene	Phenol	Pyrene	Pyridine
						CAS No.	85-01-8	108-95-2	129-00-0	110-86-1
						Method	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	2.3	58	4.6	–
						Units	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/04/2022	–	–	–	–
						Maximum before 2/04/2022	–	–	–	–
						Current Maximum	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–

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

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum before 2/04/2022	–		–		–		–	
						Maxima before 2/04/2022	–		–		–		–	
						Current Maximum	–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the s

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample we

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	<0.31	U	<0.15	U	<0.093	U	<0.093	U	–		<0.31	U	<0.31	U	<0.52	U	<0.52	U	<3.3	U	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		–	R	–	R	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	–	R	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	R	<5.0	U	<5.0	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	–		<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	<0.15	U	<0.62	U	<1.2	U	<0.15	U	<0.31	U	–		<0.15	U	<6.2	U	–		–		–		<0.15	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	–	R	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		1.1		ND		ND		ND		ND		ND		0.34		ND		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<1.5	UQ	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.19	J	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		<0.15	U	<0.093	U	<0.15	UJ	<1.6	U	<0.62	U	–		<0.52	U	<0.31	UJ	–		<0.31	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	1.1	J+	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		<0.15	U	<0.088	UJ	<0.15	U	<1.6	UJ	<0.59	U	–		<7.8	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		0.34	J+	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		–	R	<0.14	UJ	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		0.18	J	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	–	R	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
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[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<10 U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 UJ	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<10 U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 UJ	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.6 U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<9.8 U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	<10 U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.60 UJ	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–	<0.093 U	<0.15 U	<0.31 U	<0.15 U	–	<0.31 U	<0.31 U	<0.093 U	<0.62 U	<0.15 U	–	<0.093 U	<0.15 U	<1.0 U
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–	<0.090 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 U	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–	<0.29 U	<0.15 UJ	<0.29 UJ	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.98 UJ
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 UJ	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	–	R <0.14 U	–	<0.085 U	<0.14 U	– R
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 UJ	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 UJ	<0.14 U	–	<0.28 U	<0.28 U	<0.085 UJ	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	– R
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.94 U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 UJ	<0.14 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	–		<4.9	U	–		<4.9	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	–		<5.2	U	–		<5.2	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	UJ
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		<0.62	U	<0.093	U	<3.3	U
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		<0.59	U	<0.088	U	<3.1	UJ
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		<0.57	U	<0.086	U	<3	U
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		<0.57	U	–		–	R
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		6500		ND		ND		ND		ND		ND		ND		ND		ND		ND		8990	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<417	U	<417	U	<417	U	<417	U	6500		<417	U	<417	U	<417	U	<417	U	<834	U	<417	U	<417	U	<417	U	<417	U	8990	
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<11	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	2.4	J-	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	–		<5.1	U	<5.1	U	–	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<5.3	U	<5.3	U	<5.3	U	<5.3	U	–		<5.3	U	<5.3	U	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	–	
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<3.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	UJ	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		6500		ND		ND		ND		ND		ND		ND		ND		ND		ND		8990	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	–	R	–	R	–	R	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<417	U	<417	U	<834	U	<417	U	<417	U	<417	U	<417	U	<834	UJ	<417	U	<417	U	<417	U	<417	U	<834	U	<417	U	<417	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<5.6	U	<5.6	U	<11	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<11	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<11	U	<5.6	U	<5.6	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	–	R	<4.9	UJ	<4.9	UJ
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	–		<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<11	U	–		–		–		<5.3	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	<0.15	U	<0.6	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	<0.15	U	<0.62	U	<1.2	UJ	<0.15	U	<0.31	U	–		<0.15	U	<6.2	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	UJ	<0.29	U	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	UJ	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	–	R	<0.29	UJ	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		3.3		284		ND		ND		ND		ND		0.19		0.16		ND	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	284	J	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	UJ	<5.6	U	<5.6	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	3.3	J	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	–		–		–		<5.3	U	<5.3	U	<5.3	U	3.3	J	<5.3	U	–		<5.3	U	<5.3	U	–		<5.3	U	<5.3	U	–	
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	UJ	–		<0.5	U	<0.3	U	–		0.19	J	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.092	U	<0.15	U	<1.6	U	<0.62	U	–		<0.51	U	<0.31	U	–		<0.31	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	0.16	J+	–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.6	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	3.3	284	ND	ND	ND	ND	0.19	0.16	ND
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	**1.4 J**	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 UJ	<0.14 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.57 UJ	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.5 U	<0.28 U	–	<0.28 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		4450		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	UJ	<417	U	4450		<417	U	<417	U	<834	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	UJ	<5.6	U	<5.6	U	<5.6	U	<11	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	UJ	<5.1	U	–		–		<5.1	U	<5.1	U	<10	U
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	–		<5.3	U	<5.3	U	<5.3	U	<5.3	U	–		<5.3	U	<5.3	U	<5.3	UJ	<5.3	U	<5.3	U	–		<5.3	U	<5.3	U	<11	U
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		<0.09	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.6	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		<0.092	U	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.092	U	<0.62	U	<0.15	U	–		<0.092	U	<0.15	U	<1.0	U
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		<0.091	UJ	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.96	UJ
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4450	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.97 U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 UJ	<0.15 UJ	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	– R	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	– R	– R
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.94 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		0.2		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<417	U	<417	U	<417	U	<417	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<5.6	U	<5.6	U	<5.6	U	<5.6	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	–		<5.1	U	–		<5.1	U
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	–		<5.3	U	–		<5.3	U
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	–		<5	U	–		<5	U
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	–		<4.9	U	–		<4.9	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	–		<4.9	U	–		<4.9	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	–		<4.8	U	–		<4.8	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	–		<4.8	U	–		<4.8	U
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	–		<5	U	–		<5	U
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	–		<4.8	U	–		<4.8	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		<0.6	U	<0.09	U	<3.2	U
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		<0.62	U	<0.092	U	<3.3	U
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		<0.57	UJ	<0.086	U	<3.1	U
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		<0.58	U	<0.086	U	<3.1	U
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		<0.57	U	<0.086	UJ	–	R
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		<0.57	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		<0.57	U	–		<3	UJ
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		<0.6	U	–		<3.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		0.2		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		<0.57	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	–		**0.2**	**J**	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	–		–	**R**	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

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c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<3.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		–	R	–	R	–	R	–	R	–	R	<0.30	U	<0.30	U	<0.15	U	–	R	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		–	R	–	R	–	R	–	R	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		0.069		–		–		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<9.5	UJ	–		–		–		<4.8	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	<0.14	U	<0.57	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	<0.15	U	<0.6	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	<0.14	U	<0.57	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–	R	<0.60	U	–	R	<0.15	U	–	R	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	<0.14	U	<0.57	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		–	R	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		–	R	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		0.069		–		–		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		0.069	J	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.14	U	–	R	<1.1	U	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	<0.14	UJ	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
						Maximum Before 8/7/2022	–		–		–		ND		ND		ND		ND		ND		–		1.2		ND		–		0.33		ND		–	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		0.28		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	UJ	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	UJ	–		1.2	J	<0.3	U	–		<0.3	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	UJ	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.32	J+	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.7	U	<0.29	UJ	–		0.33	J+	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
						Maximum Before 8/7/2022	–	–	–	ND	ND	ND	ND	ND	–	1.2	ND	–	0.33	ND	–
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	0.28	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	– R	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	– R	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 UJ	<0.29 UJ	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 UJ	<0.29 UJ	–	<0.29 U	<0.15 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 UJ	<0.59 UJ	–	<7.8 UJ	<0.29 U	–	<0.29 U	**0.28** J	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.58 UJ	–	<7.7 UJ	<0.29 U	–	<0.29 U	**0.23** J	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 UJ	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.59 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 UJ	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	–	<5.0 U	<5.0 U	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	<9.9 U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	–	<4.8 UJ	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 UJ	<4.8 U	–	<4.8 UJ	<4.8 U	<9.5 U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<9.8 U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–	<0.086 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.57 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–	<0.09 U	<0.15 U	<0.3 U	<0.15 U	–	<0.3 U	<0.3 U	<0.09 U	<0.6 U	<0.15 U	–	<0.09 U	<0.15 U	<1 U
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–	<0.090 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 U	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–	<0.086 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.57 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–	<0.090 U	<0.15 U	<0.30 UJ	<0.15 U	–	<0.30 U	– R	<0.090 U	<0.60 U	<0.15 U	–	<0.090 U	– R	– R
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–	<0.086 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.57 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 UJ
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–	<0.090 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 U	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 UJ	<0.086 U	<0.29 U	<0.14 UJ	–	<0.086 U	<0.14 UJ	<0.96 UJ
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–	<0.28 U	<0.14 U	– R	<0.14 U	–	<0.28 U	<0.28 U	<0.085 UJ	– R	<0.14 U	–	<0.085 U	<0.14 U	<0.95 UJ
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–	<0.28 U	<0.14 U	– R	<0.14 U	–	<0.28 U	<0.28 U	<0.085 UJ	– R	<0.14 U	–	<0.085 U	<0.14 U	<0.95 UJ
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.97 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 UJ	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 UJ	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 UJ
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 UJ
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 UJ	<0.95 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–	<0.28 U	<0.14 U	<0.28 UJ	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 UJ	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.97 U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	– R	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	–	<0.29 U	<0.14 U	– R	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	–	<0.29 U	<0.15 UJ	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.98 UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	– R	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	–	<0.087 U	– R	<0.14 U	–	<0.087 U	–	– R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	–	<0.29 U	<0.15 UJ	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.98 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		ND	
						Maximum Before 8/7/2022	–		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	–		<5.0	U	–		<5.0	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	–		<4.9	U	–		<4.9	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		<0.57	U	<0.086	U	<3	U
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		<0.6	U	<0.09	U	<3.2	U
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–	R	<0.090	U	<3.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		<0.57	UJ	<0.086	U	<3.1	U
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	UJ
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		<0.57	UJ	–		–	R
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		<0.57	UJ	–		–	R
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		ND	
						Maximum Before 8/7/2022	–		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	–		<0.59	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	–		–	R	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	–		<0.59	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		0.24		ND		ND		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<3.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	0.24	J	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<1.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	UJ	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	<0.15	U	<0.6	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	<0.14	U	<0.57	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	<0.15	U	<0.30	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		–	R	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.15	U	<0.3	UJ	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.14	UJ	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
						Maximum Before 8/7/2022	–	–	–	ND	ND	ND	ND	1.5	–	ND	ND	–	ND	ND	–
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	0.27	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	–	–	–	<5.2 U	<5.2 U	<5.2 U	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	–	<5.2 U	<5.2 U	–
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–	–	–	<0.15 U	<0.09 U	<0.15 U	<1.6 U	1.5 J+	–	<0.5 U	<0.3 U	–	<0.3 U	<0.15 U	–
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 UJ	–	<0.48 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–	–	–	<0.15 U	<0.090 U	<0.15 U	<1.6 U	<0.60 UJ	–	<0.50 U	<0.30 U	–	<0.30 U	<0.15 U	–
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–	–	–	<0.15 U	<0.090 U	<0.15 U	<1.6 U	<0.60 U	–	<0.50 U	<0.30 U	–	<0.30 UJ	<0.15 U	–
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–	–	–	<0.15 U	<0.090 U	<0.15 U	<1.6 U	<0.60 U	–	<8.0 U	<0.30 U	–	<0.30 UJ	<0.15 U	–
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.58 U	–	<7.7 U	<0.29 UJ	–	<0.29 UJ	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.57 U	–	<7.7 U	<0.29 UJ	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 UJ	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–	–	–	<0.14 UJ	<0.087 UJ	<0.14 UJ	<1.5 UJ	<0.58 UJ	–	<7.7 UJ	<0.29 UJ	–	<0.29 UJ	<0.14 UJ	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	– R	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.59 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–	–	–	<0.15 U	<0.089 U	<0.15 U	<1.6 U	<0.59 U	–	<7.9 U	<0.3 U	–	<0.3 U	<0.15 U	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 UJ	<0.14 UJ	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 UJ	<0.29 UJ	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.57 UJ	–	<7.6 UJ	<0.29 U	–	<0.29 U	0.27 J	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.58 UJ	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 UJ	–
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
						CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
						Maximum Before 8/7/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		0.52	
						Maximum After 8/6/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	UJ	<5.2	U	–		<5.2	U	<5.2	U	<10	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–		<0.09	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.6	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	UJ
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		<0.090	UJ	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		<0.30	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.30	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.96	UJ
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	–	R	<0.14	U	–		<0.086	U	<0.14	U	**0.52**	**J**
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.087	UJ	<0.29	UJ	<0.14	UJ	–		<0.087	UJ	<0.14	UJ	<0.96	UJ
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	**R**
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.087	UJ	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		ND	
						Maximum Before 8/7/2022	–		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	–		<5.2	U	–		<5.2	UJ
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–		<0.6	U	<0.09	U	<3.2	U
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3	U
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	UJ
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		<0.58	UJ	<0.086	U	<3.1	U
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	UJ
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		<0.57	U	<0.085	U	<3.0	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		<0.57	UJ	–		–	R
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		<0.58	UJ	–		<3.1	UJ
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		<0.59	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		<0.59	U	–		<3.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	U	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.29	U	<0.15	UJ	<0.087	U	<0.087	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	UJ	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.31	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	<0.15	U	<0.60	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	UJ	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	UJ	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.15	UJ	<0.29	UJ	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
						Maximum Before 8/7/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	0.35	ND	–
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	–	–	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	–
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	–	–	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	–	–	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	–
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	–	–	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	–	<5 U	<5 U	–
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	–	–	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	–
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–	–	–	**<0.15 U**	**<0.092 U**	**<1.5 UM**	**<1.6 U**	**<0.61 U**	–	**<0.51 U**	**<0.31 U**	–	**0.17 J**	**<0.15 U**	–
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 U	<1.6 U	<0.60 U	–	<0.50 U	<0.30 U	–	<0.30 U	<0.15 U	–
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–	–	–	<0.15 U	<0.091 U	<0.15 UJ	<1.6 U	<0.60 U	–	<0.50 U	<0.30 U	–	**0.35 J+**	<0.15 U	–
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–	–	–	<0.14 U	<0.086 UJ	<0.14 U	<1.5 UJ	<0.57 U	–	<7.6 U	<0.29 UJ	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–	–	–	<0.14 UJ	<0.086 UJ	<0.14 UJ	<1.5 UJ	<0.57 UJ	–	<7.6 UJ	<0.29 UJ	–	<0.29 UJ	<0.14 UJ	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.59 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	<0.14 U	<0.087 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.57 UJ	–	<7.6 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	–	–	–	<0.15 U	<0.088 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 UJ	<0.15 U	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	–	–	–	<0.14 U	<0.086 UJ	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.58 UJ	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	–	–	–	<0.15 UJ	<0.087 U	<0.15 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.58 UJ	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.14 U	–

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
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b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	–	<4.9 U	<4.9 U	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<4.9 UJ	<4.9 U	<4.9 U	–	<4.9 U	<4.9 U	<9.8 U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	<5.1 U	<5.1 U	<5.1 U	–	<5.1 U	<5.1 U	<10 U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–	<0.092 U	<0.15 U	<0.31 U	<0.15 U	–	<0.31 U	<0.31 U	<0.092 U	<0.61 U	<0.15 U	–	<0.092 U	<0.15 U	<1.0 U
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.60 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 U
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–	<0.091 U	<0.15 U	<0.30 UJ	<0.15 U	–	<0.30 U	<0.30 U	<0.091 U	<0.60 U	<0.15 U	–	<0.091 U	<0.15 U	<1.0 UJ
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–	<0.29 U	<0.14 UJ	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 UJ
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 UJ	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–	<0.29 UJ	<0.14 UJ	– R	<0.14 UJ	–	<0.29 UJ	<0.29 U	<0.086 UJ	<0.29 UJ	<0.14 UJ	–	<0.086 UJ	<0.14 U	<0.95 U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 UJ	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.98 U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.14 U	–	<0.087 U	<0.14 U	<0.97 U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	<0.29 UJ	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 UJ	–	<0.086 U	<0.14 U	<0.96 UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.088 U	<0.29 U	<0.15 U	–	<0.088 U	<0.15 U	<0.97 U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		ND	
						Maximum Before 8/7/2022	–		ND		0.091		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	–		<4.9	U	–		<4.9	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	–		<5	U	–		<5	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	–		<5.1	U	–		<5.1	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	–		<5	U	–		<5	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		<0.61	U	<0.092	U	<3.3	U
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		<0.60	U	**0.091**	**J**	<3.2	U
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	UJ
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		<0.57	U	<0.085	U	<3	U
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		<0.57	U	<0.086	UJ	<3.0	UJ
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<0.57	U	–		<3	UJ
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<0.59	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
						CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.0	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.0	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.0	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1-Methylnaphthalene	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dinitrotoluene	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene
						CAS No.	120-82-1	95-50-1	541-73-1	106-46-7	90-12-0	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2	606-20-2	91-58-7	95-57-8	91-57-6
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	70	10	5	5	10	1.9	4.9	0.3	120	14	0.25	0.05	–	0.18	10
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
						Maximum Before 8/7/2022	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
						Maximum After 8/6/2022	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	ND	ND	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.28 U	<0.14 U	<0.085 U	<0.085 U	–	<0.28 U	<0.28 U	<0.47 U	<0.47 U	<1.1 UJ	<0.28 U	<0.28 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.29 U	<0.15 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.49 U	<0.49 U	<1.2 UJ	<0.29 U	<0.29 U	<0.15 U	<0.15 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.29 U	<0.15 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 UJ	<0.29 U	<0.29 U	<0.15 U	<0.15 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	– R	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 UJ	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.29 UJ	<0.14 UJ	<0.087 UJ	<0.087 UJ	–	<0.29 UJ	<0.29 UJ	<0.48 UJ	<0.48 UJ	<1.2 UJ	<0.29 UJ	<0.29 UJ	<0.14 UJ	<0.14 UJ	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.29 UJ	<0.14 UJ	<0.086 UJ	<0.086 UJ	–	<0.29 UJ	<0.29 UJ	<0.48 UJ	<0.48 UJ	<1.1 UJ	<0.29 UJ	<0.29 UJ	<0.14 UJ	<0.14 UJ	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.29 UJ	<0.14 UJ	<0.086 UJ	<0.086 UJ	–	<0.29 UJ	<0.29 UJ	<0.48 UJ	<0.48 UJ	<1.1 UJ	<0.29 UJ	<0.29 UJ	<0.14 UJ	<0.14 UJ	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.28 U	<0.14 U	<0.085 U	<0.085 U	–	<0.28 U	<0.28 U	<0.47 U	<0.47 U	<1.1 U	<0.28 U	<0.28 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.29 U	<0.15 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.15 U	<0.15 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.29 UJ	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 UJ	<0.48 UJ	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.29 U	<0.15 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.49 U	<0.49 U	<1.2 U	<0.29 U	<0.29 U	<0.15 U	<0.15 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.29 U	<0.15 U	<0.087 U	<0.087 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.2 U	<0.29 U	<0.29 U	<0.15 U	<0.15 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.28 U	<0.14 U	<0.085 U	<0.085 U	–	<0.28 U	<0.28 U	<0.47 U	<0.47 U	<1.1 U	<0.28 U	<0.28 U	<0.14 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.29 U	<0.14 U	<0.086 U	<0.086 U	–	<0.29 U	<0.29 U	<0.48 U	<0.48 U	<1.1 U	<0.29 U	<0.29 U	<0.14 U	<0.14 U	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	<0.14	U	<0.57	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	<0.14	U	<0.57	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	<0.14	U	<0.57	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	–	R	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.14	U	<0.28	UJ	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	UJ	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
						CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
						Maximum Before 8/7/2022	–		–		–		ND		ND		ND		5.6		ND		–		ND		ND		–		0.31		ND		–	
						Maximum After 8/6/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	**5.6**	**J**	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		<0.15	U	<0.090	U	<1.5	UM	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		**0.21**	**J**	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		<0.14	U	<0.086	U	<1.5	UM	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		**0.31**	**J**	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<1.5	UM	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<1.4	UM	<1.5	U	<0.57	UJ	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		**0.2**	**J**	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	bis(-2-chloroethoxy)Methane	bis(-2-chloroethyl)Ether	bis(2-chloroisopropyl)Ether	bis(2-ethylhexyl)Phthalate	Butylbenzylphthalate	Chrysene	Di-n-butyl phthalate	Di-n-octyl phthalate	Dibenzo(a,h)anthracene	Diethyl phthalate	Dimethyl phthalate	Fluoranthene
						CAS No.	205-99-2	191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	53-70-3	84-66-2	131-11-3	206-44-0
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	0.22	0.13	0.4	–	0.014	–	3	–	1	–	–	0.022	210	1100	0.8
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
						Maximum Before 8/7/2022	–	–	–	ND	ND	ND	5.6	ND	–	ND	ND	–	0.31	ND	–
						Maximum After 8/6/2022	–	–	–	ND	ND	ND	ND	ND	–	ND	ND	–	ND	ND	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.085 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 UJ	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	<0.14 UJ	<0.087 UJ	<0.14 UJ	<1.5 UJ	<0.58 UJ	–	<7.7 UJ	<0.29 UJ	–	<0.29 UJ	<0.14 UJ	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–	–	–	<0.14 UJ	<0.086 UJ	<0.14 UJ	<1.5 UJ	<0.57 UJ	–	<7.6 UJ	<0.29 UJ	–	<0.29 UJ	<0.14 UJ	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	–	–	<0.14 UJ	<0.086 UJ	<0.14 UJ	<1.5 UJ	<0.57 UJ	–	<7.6 U	<0.29 UJ	–	<0.29 UJ	<0.14 UJ	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.56 U	–	<7.5 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.5 U	<0.58 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.57 UJ	–	<7.6 U	<0.29 UJ	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.57 UJ	–	<7.6 UJ	<0.29 UJ	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.6 U	<0.58 U	–	<7.8 U	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 UJ	–	<7.7 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 UJ	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	–	–	–	<0.15 U	<0.087 U	<0.15 U	<1.5 UJ	<0.58 UJ	–	<7.7 UJ	<0.29 U	–	<0.29 U	<0.15 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 UJ	<0.57 UJ	–	<7.6 UJ	<0.29 U	–	<0.29 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	–	–	–	<0.14 U	<0.085 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.28 U	–	<0.28 U	<0.14 U	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	–	–	–	<0.14 U	<0.086 U	<0.14 U	<1.5 U	<0.57 U	–	<7.6 U	<0.29 U	–	<0.29 U	<0.14 U	–

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	0.088	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	–	<5.0 U	<5.0 U	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	<5.0 UJ	<5.0 U	<5.0 U	–	<5.0 U	<5.0 U	<9.9 U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.6 U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	–	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<5 U	<5 U	<5 U	–	<5 U	<5 U	<10 U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<4.8 U	<4.8 U	<4.8 U	–	<4.8 U	<4.8 U	<9.5 U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–	<0.090 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 U	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–	<0.086 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.57 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–	<0.090 U	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 U	<0.15 U	–	<0.090 U	<0.15 U	<1.0 UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–	<0.086 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.57 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 UJ
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–	<0.090 UJ	<0.15 U	<0.30 U	<0.15 U	–	<0.30 U	<0.30 U	<0.090 U	<0.60 U	<0.15 U	–	<0.090 U	<0.15 U	<1.0 U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–	<0.086 UJ	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.57 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–	<0.29 UJ	<0.14 UJ	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	–	<0.29 UJ	<0.14 UJ	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–	<0.28 U	<0.14 U	<0.28 UJ	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	– R	<0.15 U	–	<0.087 U	<0.15 U	– R

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	m+p-Cresols	n-Nitroso-di-n-propylamine	n-Nitrosodimethylamine	n-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	o-Cresol	Pentachlorophenol
						CAS No.	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5	78-59-1	15831-10-4	621-64-7	62-75-9	86-30-6	91-20-3	98-95-3	95-48-7	87-86-5
						Method	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C	SW8270C
						DOH Tier 1 EAL	3.9	0.0003	0.2	–	0.4	0.095	82	–	–	–	–	12	0.14	–	1
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum Before 8/7/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	ND	ND
						Maximum After 8/6/2022	–	ND	ND	ND	ND	–	ND	ND	ND	ND	ND	–	ND	0.088	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–	<0.28 U	<0.14 U	<0.28 UJ	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–	<0.29 UJ	<0.14 UJ	<0.29 UJ	<0.14 UJ	–	<0.29 UJ	<0.29 UJ	<0.087 UJ	<0.29 UJ	<0.14 UJ	–	<0.087 UJ	<0.14 UJ	<0.97 UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–	<0.29 UJ	<0.14 UJ	<0.29 UJ	<0.14 UJ	–	<0.29 UJ	<0.29 UJ	<0.086 UJ	<0.29 UJ	<0.14 UJ	–	<0.086 UJ	<0.14 UJ	– R
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	<0.29 UJ	<0.14 UJ	<0.29 UJ	<0.14 UJ	–	<0.29 UJ	<0.29 UJ	<0.086 UJ	<0.29 UJ	<0.14 UJ	–	<0.086 UJ	<0.14 UJ	– R
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	– R
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.94 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–	<0.29 U	<0.14 UJ	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–	<0.29 UJ	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 UJ	–	<0.086 U	<0.14 U	<0.95 UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	–	<0.29 U	<0.15 U	<0.29 UJ	<0.15 UJ	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 UJ	<0.14 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	0.088 J	<0.95 U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 UJ	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.96 U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	–	<0.29 U	<0.15 U	<0.29 U	<0.15 U	–	<0.29 U	<0.29 U	<0.087 U	<0.29 U	<0.15 U	–	<0.087 U	<0.15 U	<0.97 U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	–	<0.28 U	<0.14 U	<0.28 U	<0.14 U	–	<0.28 U	<0.28 U	<0.085 U	<0.28 U	<0.14 U	–	<0.085 U	<0.14 U	<0.95 U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	–	<0.29 U	<0.14 U	<0.29 U	<0.14 U	–	<0.29 U	<0.29 U	<0.086 U	<0.29 U	<0.14 U	–	<0.086 U	<0.14 U	<0.95 U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		ND	
						Maximum Before 8/7/2022	–		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	–		<5.0	U	–		<5.0	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	–		<5	U	–		<5	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	–		<5	U	–		<5	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	–		<5	U	–		<5	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	–		<0.58	U	<0.086	U	<3.1	U
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		<0.57	U	<0.085	U	<3	U
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<0.58	U	–		–	R

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	–		ND		ND		ND	
						Maximum Before 8/7/2022	–		ND		ND		ND	
						Maximum After 8/6/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		<0.57	U	–		<3	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<0.57	U	–		<3	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<0.58	UJ	–		<3.1	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		<0.57	UJ	–		<3.1	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		<0.57	UJ	–		<3	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		<0.56	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Appendix B.4.4 – GW Analytical Table_PAH_SIMs

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

Non-bold text indicates non-detected value
Bold text indicates detected value, but below the Environmental Action Level (EAL).
Bold and orange shaded text indicates exceeds the Department of Health Tier 1 EAL.
Green text indicates results have completed third-party validation.
— = not analyzed or not applicable
µg/L = microgram per liter (same as parts per billion)
B = Analyte detected in associated method blank
CAS = Chemical Abstracts Service
a = Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b = Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
c = Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed.
d = The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D = Limit of Quantitation (LOQ) increased due to sample matrix.
J = estimated value
J- = estimated value, low bias
J+ = estimated value, high bias
J1 = estimated value due to discrepancies in meeting analyte-specific quality control criteria.
JM = estimated value, manually integrated
JMQ = estimated value, manually integrated with one or more quality control outside acceptance criteria
JQ = estimated value with one or more quality control outside of acceptance criteria
mg/L = milligram per liter
M = manually integrated
ND = Nondetect
no. = number
Q = one or more quality control outside of acceptance criteria
QC = quality control
U = nondetect value
UM = nondetect value, manually integrated
UMQ = nondetect value, manually integrated with one or more quality control outside acceptance criteria
UQ = nondetect value with one or more quality control outside of acceptance criteria
S = A documented laboratory error occurred during extraction, which contributed to low surrogate recovery. The sample was re-extracted; extraction prep hold time was exceeded by 4.83
O = Diluted out
-O = The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T = Analyte detected in the associated trip blank
TB = trip blank. Do not count for total sample number. Only done for quality control purposes.
TPH-g = total petroleum hydrocarbons-gasoline range organics
TPH-d = total petroleum hydrocarbons-diesel range organics
TPH-o = total petroleum hydrocarbons-residual range
R = Exclusion of data recommended. The sample result was affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control
H = Sample was prepped or analyzed beyond the specified holding time

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.43		0.17		0.17		0.037		0.069		0.032		0.018		0.014	
						Maximum After 8/6/2022	ND		ND		0.13		0.027		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	0.43		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	0.22		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	0.28		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	0.23		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	0.42		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	0.3		0.17	J	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	0.2	J-	–	R	–	R	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	0.088	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	0.19	J	0.089	J	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	0.28		0.085	J	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	0.25		0.064	J	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	0.14	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	0.24		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	0.19	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	0.21		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	0.085	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	0.12	J-	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	0.16	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	0.1	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	0.12	J	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	0.1	J	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	0.096	J	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	0.071	J	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	--		--		--		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–	R	–	R	–	R	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.43		0.17		0.17		0.037		0.069		0.032		0.018		0.014	
						Maximum After 8/6/2022	ND		ND		0.13		0.027		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.098	U	<0.098	U	<0.098	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.05	UJ	<0.05	U	<0.05	UJ	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.048	UJ	<0.048	U	<0.048	UJ	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	**0.036**	J	**0.036**	J	<0.05	U	<0.05	U	**0.069**	J	**0.032**	J	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	<0.031	U	<0.077	U	**0.11**	J	**0.022**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	<0.032	U	<0.081	U	**0.093**	J	**0.024**	J	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	**0.047**	J	**0.049**	J	**0.12**	J	**0.033**	J	**0.0091**	J	<0.081	U	**0.018**	J	**0.014**	J
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	<0.031	U	<0.077	U	**0.12**	J	**0.031**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	**0.032**	J	<0.081	U	**0.11**		**0.019**	J	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	**0.037**	J	<0.076	U	**0.14**		**0.023**	J	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	**0.18**		<0.081	U	**0.17**		**0.026**	J	<0.033	U	<0.081	U	<0.033	U	<0.033	U
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	<0.030	U	<0.076	U	**0.11**		**0.024**	J	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	<0.031	U	<0.076	U	**0.12**		**0.022**	J	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	<0.03	U	<0.076	U	**0.13**		**0.02**	J	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	<0.031	U	<0.078	U	**0.097**		**0.02**	J	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	<0.031	U	<0.077	U	**0.12**		**0.027**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	**0.022**	J	<0.078	U	**0.084**	J	**0.027**	J	<0.031	U	<0.078	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
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						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.43		0.17		0.17		0.037		0.069		0.032		0.018		0.014	
						Maximum After 8/6/2022	ND		ND		0.13		0.027		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	UJ	<0.078	UJ	**0.071**	J	**0.018**	J	<0.031	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.025**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.076	U	**0.11**		**0.024**	J	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.027**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	**0.032**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.032**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.029**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.077	U	**0.12**		**0.029**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.076	U	**0.13**		**0.031**	J	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.075	U	**0.13**		**0.032**	J	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.076	U	**0.14**		**0.037**	J	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.077	U	**0.13**		**0.029**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.077	U	**0.13**		**0.026**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.027**	J	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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						Analyte	Benzo(b)fluoranthene (SIM)	Benzo(g,h,i)perylene (SIM)	Benzo(k)fluoranthene (SIM)	Chrysene (SIM)	Dibenzo(a,h)anthracene (SIM)	Fluoranthene (SIM)	Fluorene (SIM)	Indeno(1,2,3-cd)pyrene (SIM)	Phenanthrene (SIM)	Pyrene (SIM)
						CAS No.	205-99-2	191-24-2	207-08-9	218-01-9	53-70-3	206-44-0	86-73-7	193-39-5	85-01-8	129-00-0
						Method	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM
						DOH Tier 1 EAL	0.22	0.13	0.4	1	0.022	0.8	3.9	0.095	2.3	4.6
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 8/7/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
						Maximum Before 8/7/2022	ND	ND	ND	0.032	ND	0.084	0.073	ND	0.06	0.065
						Maximum After 8/6/2022	ND	ND	ND	ND	ND	ND	0.016	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–

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						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.032		ND		0.084		0.073		ND		0.06		0.065	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.016		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	**0.052**	J	<0.052	U	<0.052	U	<0.052	U	**0.032**	J
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	**0.073**	J	<0.05	U	**0.036**	J	<0.05	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	**0.084**	J	<0.048	U	<0.048	U	<0.048	U	**0.033**	J
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	**<0.032**	U	**<0.032**	U	**<0.032**	U	**0.032**	J	**<0.032**	U	**<0.032**	U	**0.028**	J	**<0.032**	U	**0.06**	J	**0.065**	J
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.019**	J	<0.031	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	**0.017**	J	<0.033	U	<0.081	U	<0.081	U
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	J	<0.031	U	<0.078	U	<0.078	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.032		ND		0.084		0.073		ND		0.06		0.065	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.016		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.078	UJ
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.021**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.019**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.017**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	**J**	<0.031	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	**0.017**	**J**	<0.03	U	<0.075	U	<0.075	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.017**	**J**	<0.031	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	2.2		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	53		49		110		0.69		0.17		0.032		0.056		0.16	
						Maximum After 8/6/2022	32		19		42		0.29		0.19		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	33		24		59		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	21		9.5		52		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	22		11	J	47		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	19		11		39		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	17		7		35		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	14		7		29		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	20		12		42		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	12		2.8		26		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	19		14		43		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	12	J-	7.2	J-	24	J-	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	14		6		26		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	19		8.3		33		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	24		17		54		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	20		10		32		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	13		11		26		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	19		6.9		37		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	19		11		38		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	24		19		56		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	28		26		60		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	35	J-	29	J-	62	J-	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	32		26		67		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	53		49		110		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	21		18		42		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	31	J-	29	J-	67	J-	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	19	J-	15	J-	36	J-	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	33		33		70		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	25	J-	23	J-	49	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	28	J-	31	J-	56	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	25	J-	26	J-	51	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	20	J-	21	J-	46	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	36		34		51		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	37		37		78		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	35		35		72		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	31	J-	30	J-	63	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	20	J-	18	J-	43	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	38	J	38	J	74	J	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	16		13		35		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	14	J+	11	J+	30	J+	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	2.2	J-	0.96	J-	4.9	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	3.7		0.86		2.3		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	8.8		4.9		12		0.2		<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	4.2		2.1		2.7		0.14		<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	24	J-	16		22	J-	0.32		<0.05	U	<0.05	U	0.045	J	0.16	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	39		23		25		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	2.2		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	53		49		110		0.69		0.17		0.032		0.056		0.16	
						Maximum After 8/6/2022	32		19		42		0.29		0.19		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	9.6	J	5	J	12	J	0.4	J	<0.033	U	<0.082	U	<0.033	U	<0.033	U
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	15	J	4.6	J	8.3	J	0.27	J	0.071		0.032	J	0.056		0.035	J
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	17		5.3		9.8		0.28		0.067		<0.081	U	<0.032	U	<0.032	U
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	8.5		1.4		1.9		0.18		<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	17		11		16		0.11		<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	5.6		0.55		0.74		0.15		0.034	J	<0.079	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	3.7	J	0.1	J	0.95	J	0.14		0.012	J	0.022	J	<0.032	U	<0.032	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	3.7	J	<0.077	U	0.39		0.2		<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	6.3		1.1		0.74		0.35		<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	12		2.2		0.76		0.28		0.074		<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	7.1		1.7		1.2		0.13	J	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	19	J	0.75	J	<0.077	U	0.26	J	0.17		<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	45		22		23		0.21		0.14		<0.078	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	19		7.7		8		0.28		<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	12		5.4		13		0.41		<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	19		14		38		0.33		0.093		<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	9.5		4.2		13		0.28		0.14		<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	18		13		32		0.69		0.17		<0.076	U	<0.03	U	<0.03	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	10		5.9		11		0.23		<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	24		15		28		0.27		0.19		<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	11		7.3		16		0.21		0.05		<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	32		19		42		0.29		0.068		<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	12		0.54		0.51		0.25		<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	10		2		1.6		0.2		<0.031	U	<0.076	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.026		0.016		ND		0.09		ND		0.18		0.26		ND		0.11		0.19	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.17		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	**0.16**		<0.10	U	<0.10	U	<0.10	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	**0.055**	J	<0.05	U	**0.18**		**0.17**		<0.05	U	<0.05	U	**0.17**	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	**0.16**		<0.049	U	<0.049	U	<0.049	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.026		0.016		ND		0.09		ND		0.18		0.26		ND		0.11		0.19	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		0.17		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	0.18		<0.033	U	<0.082	U	<0.082	U
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	0.026	J	0.016	J	<0.032	U	0.09	J	<0.032	U	0.044	J	0.14	J	<0.032	U	0.11		0.19	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	0.13		<0.032	U	<0.081	U	<0.081	U
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	0.094	J	<0.032	U	<0.081	U	<0.081	U
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.075	J	<0.031	U	<0.079	U	<0.079	U
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	0.045	J	<0.032	U	<0.080	U	<0.080	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.063	J	<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	0.017	J	<0.03	U	<0.03	U	0.16		<0.03	U	<0.076	U	<0.076	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.13		<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.072	J	<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.19		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.14		<0.031	U	<0.078	U	<0.078	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.15		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.2		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.14		<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.14		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	0.26		<0.03	U	<0.076	U	<0.076	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.13		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.17		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.1		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.12		<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.14		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.11		<0.031	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.03		0.045		ND		ND		ND		ND		0.016		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–	R	–	R	–	R	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<0.099	UJ	<0.099	UJ	<0.099	UJ	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.052	UJ	<0.052	U	<0.052	UJ	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.03		0.045		ND		ND		ND		ND		0.016		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	<0.033	U	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	<0.033	U	<0.033	U
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	**0.03**	J	**0.045**	J	<0.081	U	<0.032	U	<0.032	U	<0.081	U	**0.016**	J	<0.032	U
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	**0.013**	J	<0.03	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.15	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.028		ND		0.053		ND		ND		0.064		0.074	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	**0.053**	**J**	<0.052	U	<0.052	U	<0.052	U	**0.05**	**J**
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.028		ND		0.053		ND		ND		0.064		0.074	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.082	U	<0.082	U
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	<0.032	U	<0.032	U	<0.032	U	0.028	J	<0.032	U	0.02	J	<0.032	U	<0.032	U	0.064	J	0.074	J
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	0.023	J	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.15	U	<0.15	U	<0.15	U	<0.031	U	<0.15	U	0.018	J	<0.031	U	<0.15	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		0.027	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	0.027	J
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	<0.030	U	<0.075	U	<0.075	U	<0.030	U	<0.030	U	<0.075	U	<0.030	U	<0.030	U
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	UJ	<0.031	UJ	<0.031	UJ
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		0.027	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.031	UJ	<0.078	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.031	UJ	<0.078	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.033		0.044		0.013		0.02		ND		ND		ND		0.044		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	**0.033**	**J**	**0.044**	**J**	**0.013**	**J**	**0.02**	**J**	<0.032	U	<0.032	U	<0.032	U	**0.044**	**J**	<0.081	U	<0.081	U
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.075	U	<0.075	U
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.033		0.044		0.013		0.02		ND		ND		ND		0.044		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.078	UJ
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.078	UJ
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.062		0.036	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	<0.11	U	<0.11	U	<0.11	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	<0.1	UJ	<0.1	UJ	<0.1	UJ	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	<0.097	U	<0.097	U	<0.097	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<0.096	UJ	<0.096	UJ	<0.096	UJ	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.048	UJ	<0.048	U	<0.048	UJ	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	**0.062**		**0.036**	J
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.062		0.036	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	**0.017**	**J**	**0.013**	**J**
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	**0.014**	**J**	**0.013**	**J**
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.028		0.02		ND		0.11		ND		0.051		ND		ND		0.067		0.23	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	**0.028**	**J**	**0.02**	**J**	**<0.032**	**U**	**0.11**		**<0.032**	**U**	**0.051**	**J**	**<0.032**	**U**	**<0.032**	**U**	**0.067**	**J**	**0.23**	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.028		0.02		ND		0.11		ND		0.051		ND		ND		0.067		0.23	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	**0.018**	**J**	<0.031	U	<0.031	U	**0.017**	**J**	<0.031	U	**0.036**	**J**	<0.031	U	<0.031	U	<0.077	U	**0.034**	**J**
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	**0.012**	**J**	<0.031	U	<0.031	U	**0.017**	**J**	<0.031	U	**0.027**	**J**	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.086		0.14		0.041		ND		0.021		0.03		0.048		0.028	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	<0.033	U	<0.081	U	<0.081	U	<0.033	U	<0.033	U	<0.081	U	<0.033	U	<0.033	U
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	**0.086**	J	**0.14**	J	**0.041**	J	<0.032	U	**0.021**	J	**0.03**	J	**0.048**	J	**0.028**	J
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	UJ	<0.03	UJ	<0.03	UJ
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ

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Groundwater Sampling: RHMW06

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.086		0.14		0.041		ND		0.021		0.03		0.048		0.028	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.019		0.012		ND		0.068		ND		0.044		0.022		ND		0.089		0.19	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.081	U	<0.081	U
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	**0.019**	**J**	**0.012**	**J**	<0.032	U	**0.068**	**J**	<0.032	U	**0.044**	**J**	**0.022**	**J**	<0.032	U	**0.089**	**J**	**0.19**	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	**<0.031**	**U**	**<0.031**	**U**	**<0.031**	**U**	**<0.031**	**U**	**<0.031**	**U**	**<0.031**	**U**	**<0.031**	**U**	**<0.031**	**U**	**<0.077**	**U**	**<0.077**	**U**
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ

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						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.019		0.012		ND		0.068		ND		0.044		0.022		ND		0.089		0.19	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.015		ND		ND		0.035		0.021	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–	–	–	–	–	–	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<0.097	U	<0.097	U	<0.097	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	<0.032	U	<0.081	U	<0.081	U	**0.015**	**J**	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	<0.033	U	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	**0.035**	**J**	**0.021**	**J**
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	UJ	<0.03	UJ	<0.03	UJ
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		0.015		ND		ND		0.035		0.021	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.019		0.012		ND		0.069		ND		0.024		ND		ND		ND		0.11	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**0.018**	**J**	<0.032	U	**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**<0.081**	**U**	**0.036**	**J**
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	**0.019**	**J**	**0.012**	**J**	**<0.033**	**U**	**0.069**	**J+**	<0.033	U	**0.024**	**J**	**<0.033**	**U**	**<0.033**	**U**	**<0.082**	**U**	**0.11**	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.019		0.012		ND		0.069		ND		0.024		ND		ND		ND		0.11	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.028		0.043		0.033		0.021		ND		ND		0.074		0.042	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<0.052	U	<0.052	U	<0.052	U	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	**0.028**	J	**0.043**	J	<0.081	U	<0.032	U	<0.032	U	<0.081	U	**0.074**		**0.042**	J
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	**0.017**	J	<0.03	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U

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Groundwater Sampling: RHMW09

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.028		0.043		0.033		0.021		ND		ND		0.074		0.042	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.032	U	<0.081	U	**0.033**	**J**	**0.021**	**J**	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

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Groundwater Sampling: RHMW09

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.027		0.017		ND		0.11		ND		0.085		0.028		ND		0.059		0.22	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	**0.051**	J	<0.049	U	<0.049	U	<0.049	U	**0.061**	J
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	**0.085**	J	<0.052	U	<0.052	U	<0.052	U	**0.085**	J
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	**0.027**	J	**0.017**	J	<0.032	U	**0.11**		<0.032	U	**0.048**	J	<0.032	U	<0.032	U	**0.04**	J	**0.22**	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	**0.031**	J	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U

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Groundwater Sampling: RHMW09

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.027		0.017		ND		0.11		ND		0.085		0.028		ND		0.059		0.22	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	**0.029**	**J**	**0.028**	**J**	<0.032	U	**0.059**	**J**	<0.081	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.032		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<0.048	U	<0.048	U	<0.048	U	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	0.032	J	<0.051	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	<0.030	U	<0.075	U	<0.075	U	<0.030	U	<0.030	U	<0.075	U	<0.030	U	<0.030	U
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	UJ	<0.031	UJ	<0.031	UJ
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	UJ	<0.031	UJ	<0.031	UJ
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.047	U	<0.03	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		0.032		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.081		0.031		0.072		0.088		0.081		ND		ND		0.059		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	0.081	J	0.031	J	0.072	J	0.088	J	0.081	J	<0.051	U	<0.051	U	0.059	J	<0.051	U	<0.051	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	0.031	J	<0.049	U	0.029		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.075	U	<0.075	U
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.076	UJ
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.076	UJ
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.081		0.031		0.072		0.088		0.081		ND		ND		0.059		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	<0.030	U	<0.075	U	<0.075	U	<0.030	U	<0.030	U	<0.075	U	<0.030	U	<0.030	U
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U

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						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Groundwater Sampling: RHMW11-05

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.075	U	<0.075	U
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.077	U	<0.077	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U

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						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<0.097	U	<0.097	U	<0.097	U	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	UJ	<0.03	UJ	<0.03	UJ
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.036		ND		ND		ND		ND		0.058		ND		ND		ND		0.057	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	**0.058**	**J**	<0.048	U	<0.048	U	<0.048	U	**0.057**	**J**
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	**0.036**	**J**	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	<0.03	U	<0.03	U	<0.03	UJ	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	UJ	<0.032	U	<0.079	U	<0.079	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.036		ND		ND		ND		ND		0.058		ND		ND		ND		0.057	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<0.097	U	<0.097	U	<0.097	U	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

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Groundwater Sampling: RHMW14-03

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Groundwater Sampling: RHMW14-03

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

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						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	<0.11	U	<0.11	U	<0.11	U	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–	R	–	R	–	R	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<0.11	U	<0.11	U	<0.11	U	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<0.05	UJ	<0.05	U	<0.05	UJ	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.033	U	<0.083	U	<0.083	U	<0.033	U	<0.033	U	<0.083	U	<0.033	U	<0.033	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.083	U	<0.083	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screen
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	2022-06-15	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	2022-06-23	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	2022-07-01	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	2022-07-06	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	2022-07-12	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	2022-08-03	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	2022-08-10	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	2022-08-31	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	2022-09-14	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	2022-09-28	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When the
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screenir
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. Tl
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

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						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

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						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.17		0.19		0.12		0.032		ND		0.063		0.1		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	**0.17**	**J**	**0.19**	**J**	**0.12**	**J**	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–	–	–	–	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	<0.096	U	<0.096	U	<0.096	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<0.097	U	<0.097	U	<0.097	U	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<0.099	U	**0.053**	**J**	<0.099	U	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	–		–		–		–		–	
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.097	UJ	<0.097	UJ	<0.097	UJ	–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–											
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	**0.1**		<0.048	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.17		0.19		0.12		0.032		ND		0.063		0.1		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	0.068	J	0.066	J	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.048	U	0.053	J	0.048	J	0.032	J	<0.048	U	0.063	J	<0.048	U	<0.048	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	<0.033	U	<0.081	U	<0.081	U	<0.033	U	<0.033	U	<0.081	U	<0.033	U	<0.033	U
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	0.038	J	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	<0.033	U	<0.033	U
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	0.068	J	0.078	J	0.055	J	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	0.027	J	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	0.018	J	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	0.02	J	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	0.023	J	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.17		0.19		0.12		0.032		ND		0.063		0.1		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.03	U	**0.1**	**J**	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.17		0.07		0.12		0.11		0.037		0.063		0.078		0.11		0.057		0.044	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V																				
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	**0.17**		**0.07**	J	**0.12**		**0.11**		**0.037**	J	**0.043**	J	<0.048	U	**0.11**		<0.048	U	**0.032**	J
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.17		0.07		0.12		0.11		0.037		0.063		0.078		0.11		0.057		0.044	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	**0.063**	**J**	**0.078**	**J**	<0.048	U	**0.057**	**J**	**0.044**	**J**
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.081	U	<0.081	U
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.082	U	<0.082	U
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.17		0.07		0.12		0.11		0.037		0.063		0.078		0.11		0.057		0.044	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum before 2/4/2022	ND		ND		ND		–		–		–		–		–	
						Maximum before 02/04/2022	0.063		0.07		0.043		–		–		–		–		–	
						Current Maximum	–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	

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

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum before 2/4/2022	ND		ND		ND		–		–		–		–		–	
						Maximum before 02/04/2022	0.063		0.07		0.043		–		–		–		–		–	
						Current Maximum	–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	**0.055**	J	**0.061**	J	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	**0.063**	J	**0.07**	J	**0.043**	J	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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

						Analyte	Benzo(b)fluoranthene (SIM)	Benzo(g,h,i)perylene (SIM)	Benzo(k)fluoranthene (SIM)	Chrysene (SIM)	Dibenzo(a,h)anthracene (SIM)	Fluoranthene (SIM)	Fluorene (SIM)	Indeno(1,2,3-cd)pyrene (SIM)	Phenanthrene (SIM)	Pyrene (SIM)
						CAS No.	205-99-2	191-24-2	207-08-9	218-01-9	53-70-3	206-44-0	86-73-7	193-39-5	85-01-8	129-00-0
						Method	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM
						DOH Tier 1 EAL	0.22	0.13	0.4	1	0.022	0.8	3.9	0.095	2.3	4.6
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/4/2022	–	–	–	–	–	–	–	–	–	–
						Maximum before 02/04/2022	–	–	–	–	–	–	–	–	–	–
						Current Maximum	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–

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Groundwater Sampling: RHSF

						Analyte	Benzo(b)fluoranthene (SIM)	Benzo(g,h,i)perylene (SIM)	Benzo(k)fluoranthene (SIM)	Chrysene (SIM)	Dibenzo(a,h)anthracene (SIM)	Fluoranthene (SIM)	Fluorene (SIM)	Indeno(1,2,3-cd)pyrene (SIM)	Phenanthrene (SIM)	Pyrene (SIM)
						CAS No.	205-99-2	191-24-2	207-08-9	218-01-9	53-70-3	206-44-0	86-73-7	193-39-5	85-01-8	129-00-0
						Method	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM
						DOH Tier 1 EAL	0.22	0.13	0.4	1	0.022	0.8	3.9	0.095	2.3	4.6
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum before 2/4/2022	–	–	–	–	–	–	–	–	–	–
						Maximum before 02/04/2022	–	–	–	–	–	–	–	–	–	–
						Current Maximum	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compo
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or greas
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same sampling event had no detections of PAHs. Therefore, detections of PAHs in
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time per
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sar
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.037		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–	R	–	R	–	R	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<0.049	UJ	<0.049	U	<0.049	UJ	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	<0.033	U	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	<0.033	U	<0.033	U
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	0.037	J+	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	UJ	<0.03	UJ	<0.03	UJ
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	

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Groundwater Sampling: OWDFMW01

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.037		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: OWDFMW01

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.066		ND		ND		ND		0.072	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	**0.066**	**J**	<0.049	U	<0.049	U	<0.049	U	**0.072**	**J**
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.082	U	<0.082	U
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.066		ND		ND		ND		0.072	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	629		902		127		0.28		0.15		0.33		0.99		0.83	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		0.021		0.15		0.21	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<0.11	U	<0.11	U	<0.11	U	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	4.3	J-	<0.097	UJ	1.1	J-	–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	0.2		0.18	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	629		902		127		<0.053	U	<0.053	U	0.21		0.16		0.092	J
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	0.16		0.13	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	0.033	J	<0.049	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	2.3		3.6		1.2		0.28		0.15		0.33		0.99		0.83	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	0.058	J	0.069	J
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	0.042	J	0.048	J	0.074	J	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	<0.033	U	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	<0.033	U	<0.033	U
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	0.23		0.28	

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						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	629		902		127		0.28		0.15		0.33		0.99		0.83	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		0.021		0.15		0.21	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	0.047	J	0.34		0.37	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	0.03	J	0.036	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	0.035	J	0.041	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	0.09	J	0.11	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	0.011	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	0.059		0.08	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	0.026	J	<0.076	U	<0.076	U	<0.03	U	<0.03	U	0.038	J	0.2		0.28	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	0.063	J	0.065	J	<0.078	U	<0.031	U	<0.031	U	<0.078	U	0.056		0.083	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	0.021	J	0.15		0.21	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	0.027	J	0.033	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	1.2		0.51		0.42		1.2		0.13		2.6		0.45		0.57		1.9		2.6	
						Maximum After 8/6/2022	0.22		0.14		0.081		0.19		0.034		0.25		ND		0.2		0.072		0.26	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	0.3		0.16		0.1	J	0.33		<0.10	U	0.37		<0.10	U	0.17		0.05	J	0.64	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	0.16		0.042	J	0.045	J	0.18		<0.053	U	0.33		<0.053	U	0.071	J	1.9		0.42	
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	0.2		0.087	J	0.075	J	0.16		<0.05	U	0.14		<0.05	U	0.11		<0.05	U	0.27	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	0.091	J	<0.049	U	0.067	J	<0.049	U	<0.049	U	0.067	J	<0.049	U	<0.049	U	<0.049	U	0.069	J
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	1.2		0.51		0.42		1.2		0.13		2.6		0.45		0.57		1.7		2.6	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	0.12		0.14		0.1		<0.05	U	0.12		<0.05	U	<0.05	U	0.12		<0.05	U	<0.05	U
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.082	U	<0.082	U
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	0.4		0.21		0.18		0.33		0.05	J	0.29		<0.032	U	0.26		0.093	J	0.56	

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						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	1.2		0.51		0.42		1.2		0.13		2.6		0.45		0.57		1.9		2.6	
						Maximum After 8/6/2022	0.22		0.14		0.081		0.19		0.034		0.25		ND		0.2		0.072		0.26	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	0.44		0.24		0.15		0.35		0.056	J	0.52		<0.03	U	0.32		0.19		0.62	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	0.043	J	0.029	J	0.02	J	0.04	J	<0.031	U	0.053	J	<0.031	UJ	0.036	J	<0.078	U	0.066	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	0.053	J	0.035	J	0.024	J	0.051	J	<0.03	U	0.064	J	<0.03	U	0.046	J	<0.076	U	0.072	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	0.11	J	0.092	J	0.054	J	0.11		<0.031	U	0.14	J	<0.031	U	0.11	J	0.038	J	0.15	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	0.013	J	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.015	J	<0.078	U	<0.078	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	0.094		0.072		0.039	J	0.079	J	<0.031	U	0.081	J	<0.031	U	0.097		<0.076	U	0.098	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	0.28		0.24		0.13		0.25		0.058	J	0.32		<0.03	U	0.32		0.087	J	0.37	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	0.09		0.046	J	0.044	J	0.074	J	<0.031	U	0.1	J	<0.031	U	0.067		0.075	J	0.15	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	0.22		0.14		0.081		0.19		0.034	J	0.25		<0.03	U	0.2		0.072	J	0.26	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	0.047	J	0.03	J	0.022	J	0.051	J	<0.031	U	0.059	J	<0.031	U	0.038	J	<0.077	U	0.072	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.029		ND		ND		0.048		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	**0.029**	**J**	<0.03	U	<0.03	U	**0.048**	**J**	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.029		ND		ND		0.048		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.041		0.06		ND		ND		0.013		ND		0.03		0.022	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	<0.033	U	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	<0.033	U	<0.033	U
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	0.041	J	0.06	J	<0.080	U	<0.032	U	0.013	J	<0.080	U	0.03	J	0.022	J
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	<0.030	UJ	<0.076	UJ	<0.076	UJ	<0.030	UJ	<0.030	UJ	<0.076	UJ	<0.030	UJ	<0.030	UJ
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.041		0.06		ND		ND		0.013		ND		0.03		0.022	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.014		0.012		ND		0.043		ND		0.092		ND		ND		0.055		0.1	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	**0.092**	J	<0.05	U	<0.05	U	**0.042**	J	**0.083**	J
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.082	U	<0.082	U
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	**0.014**	J	**0.012**	J	<0.032	U	**0.043**	J	<0.032	U	**0.022**	J	<0.032	U	<0.032	U	**0.055**	J	**0.1**	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.076	UJ	<0.076	UJ
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.014		0.012		ND		0.043		ND		0.092		ND		ND		0.055		0.1	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.085		0.099		0.069		0.11		0.15		ND		0.035		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	0.085	J	0.099	J	0.069	J	0.11		0.15		<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	0.035	J	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.031	UJ	<0.076	UJ	<0.076	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.031	UJ	<0.031	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.03	UJ	<0.076	UJ	<0.076	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.03	UJ	<0.03	UJ

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	0.085		0.099		0.069		0.11		0.15		ND		0.035		ND	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.15		0.069		ND		ND		0.14	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/19/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	**0.15**		**0.069**	J	<0.048	U	<0.048	U	**0.12**	
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	**0.15**		<0.048	U	<0.048	U	<0.048	U	**0.14**	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2935	3/24/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.076	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 8/7/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 8/7/2022	ND		ND		ND		ND		ND		0.15		0.069		ND		ND		0.14	
						Maximum After 8/6/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Appendix B.4.5 – TPH Charts

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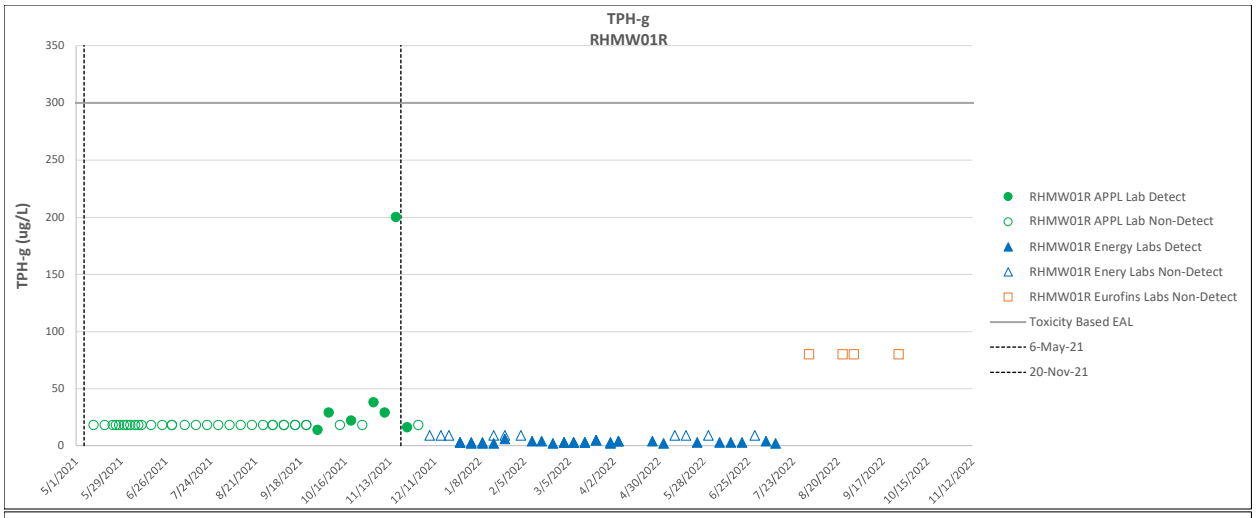
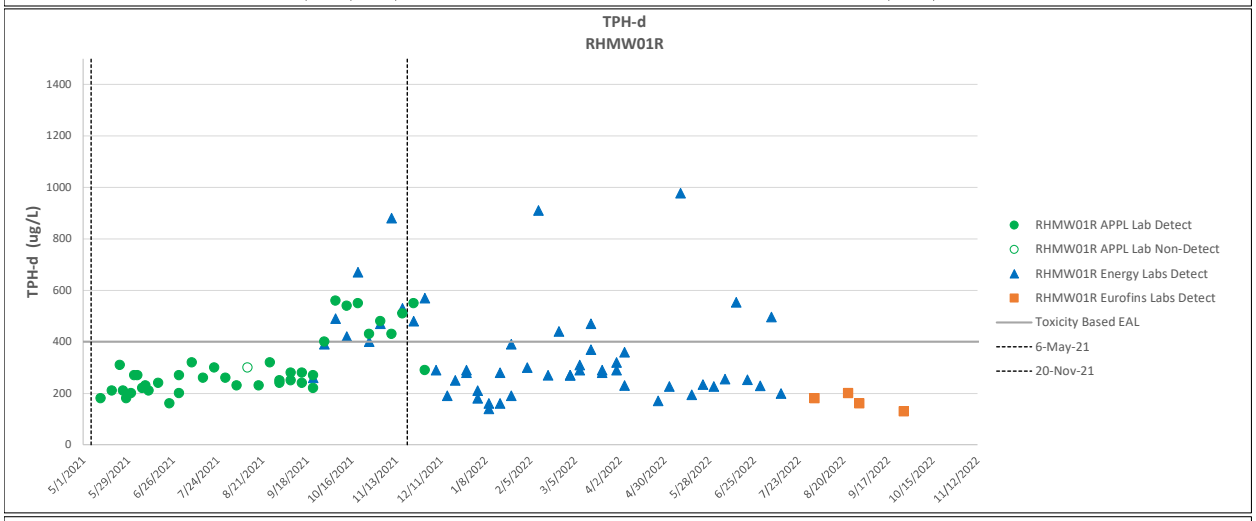
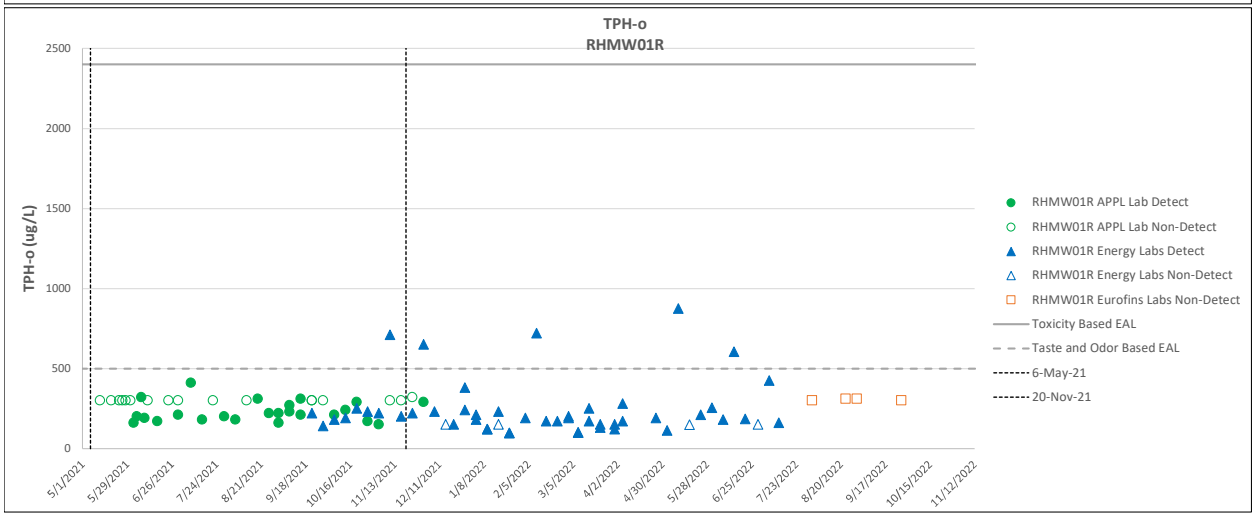
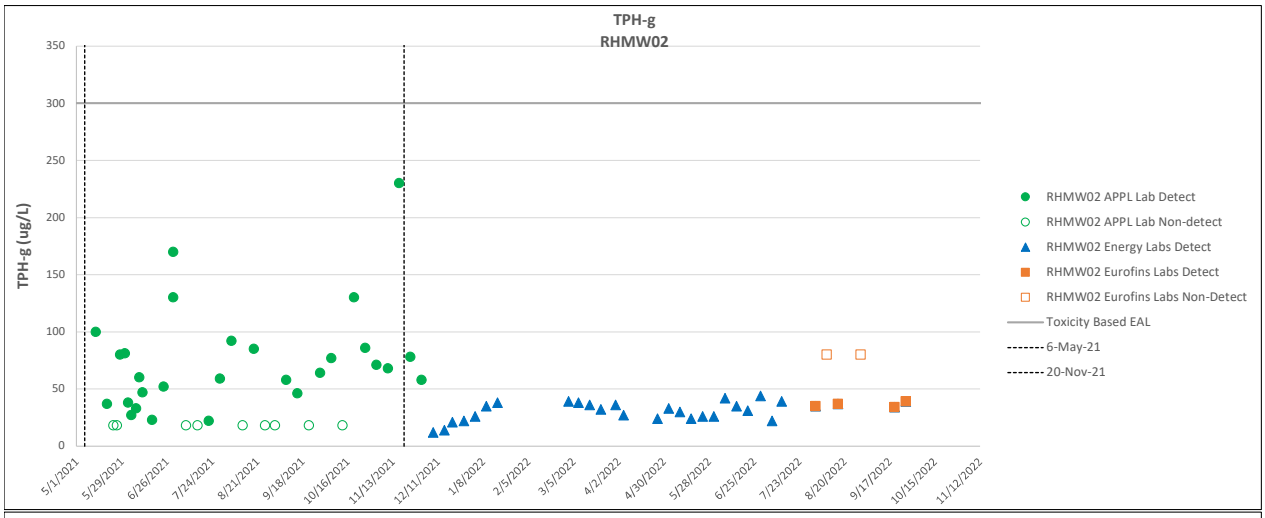


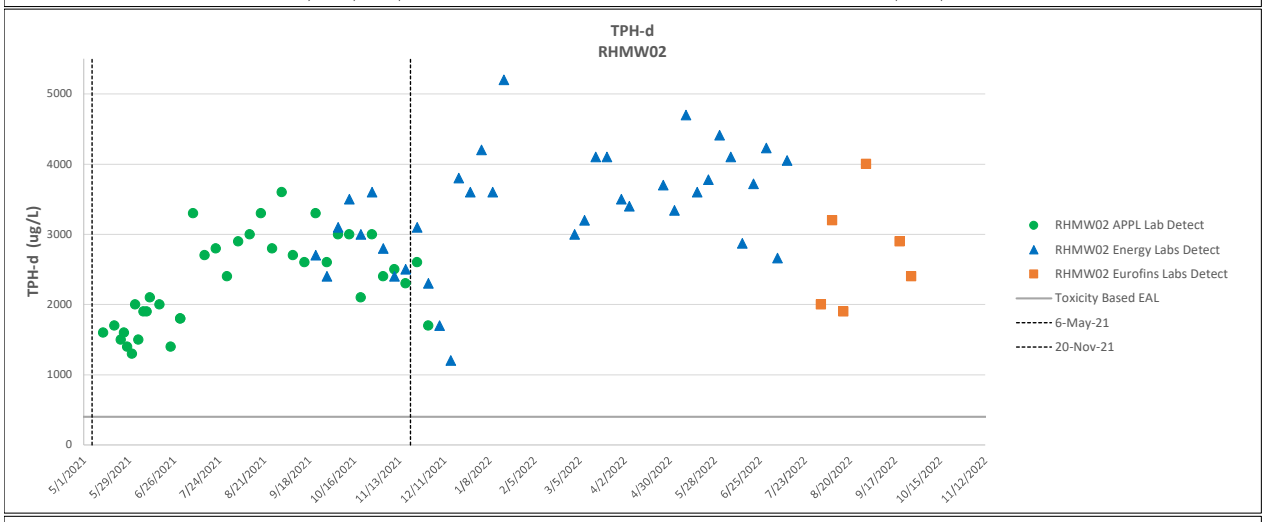


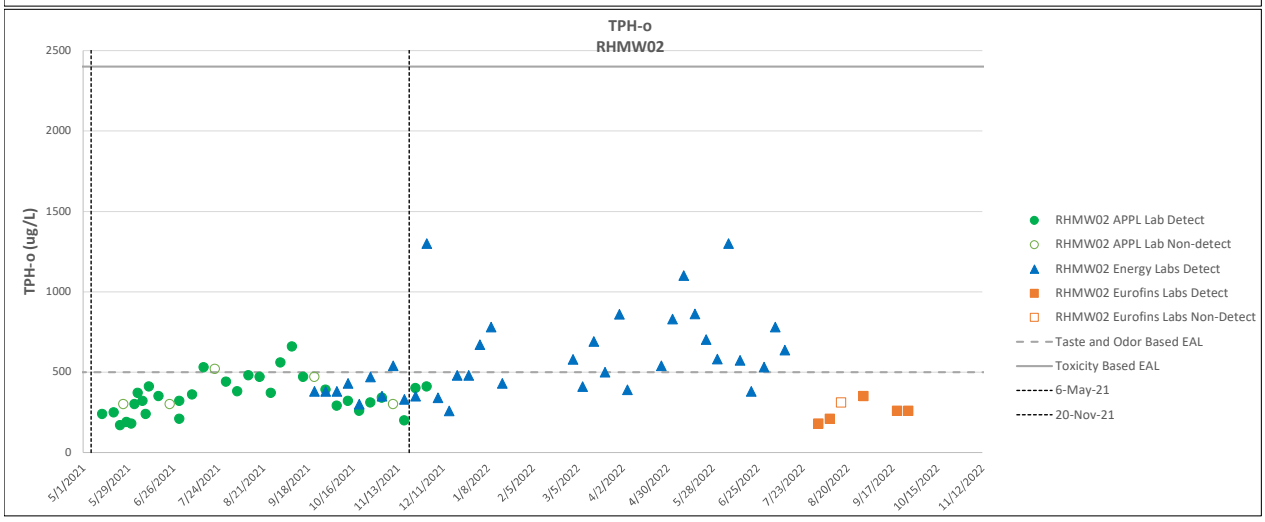


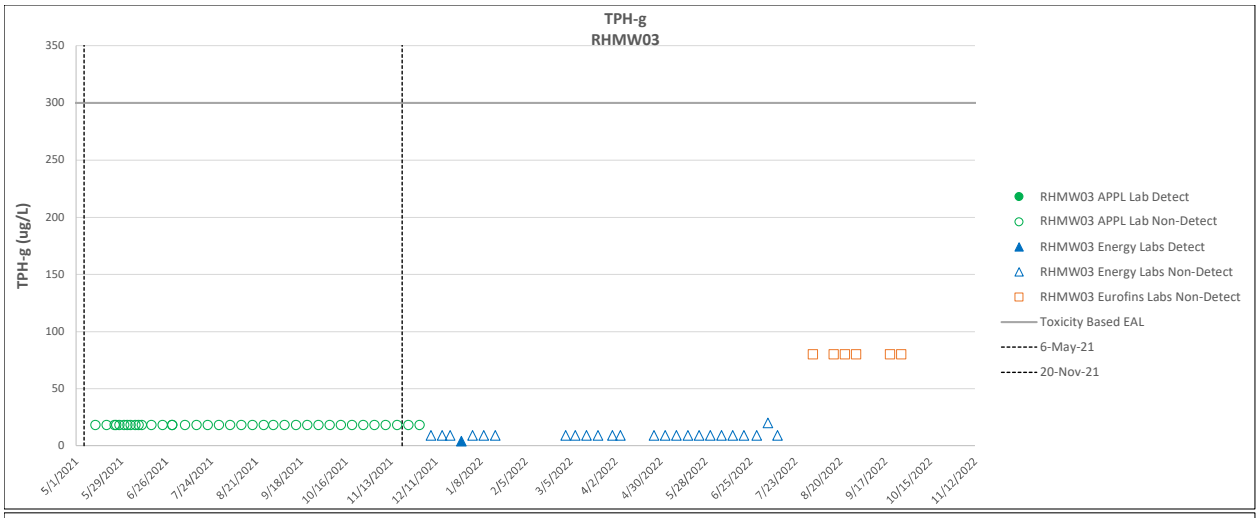
Notes:

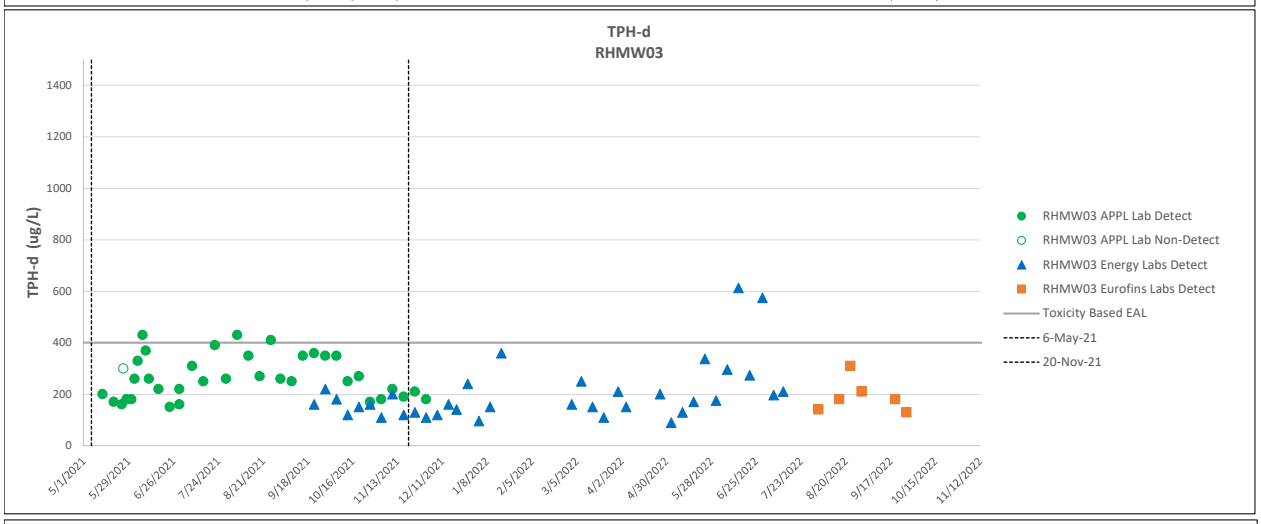
[1] Sample collected on 12/20/2021 was reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.


TPH-g
RHMW02
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW02 APPL Lab Detect
RHMW02 APPL Lab Non-detect
RHMW02 Energy Labs Detect
RHMW02 Eurofins Labs Detect
RHMW02 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW02
TPH-d (ug/L)
5000
4000
3000
2000
1000
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW02 APPL Lab Detect
RHMW02 Energy Labs Detect
RHMW02 Eurofins Labs Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW02
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW02 APPL Lab Detect
RHMW02 APPL Lab Non-detect
RHMW02 Energy Labs Detect
RHMW02 Eurofins Labs Detect
RHMW02 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW03
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW03 APPL Lab Detect
RHMW03 APPL Lab Non-Detect
RHMW03 Energy Labs Detect
RHMW03 Energy Labs Non-Detect
RHMW03 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW03
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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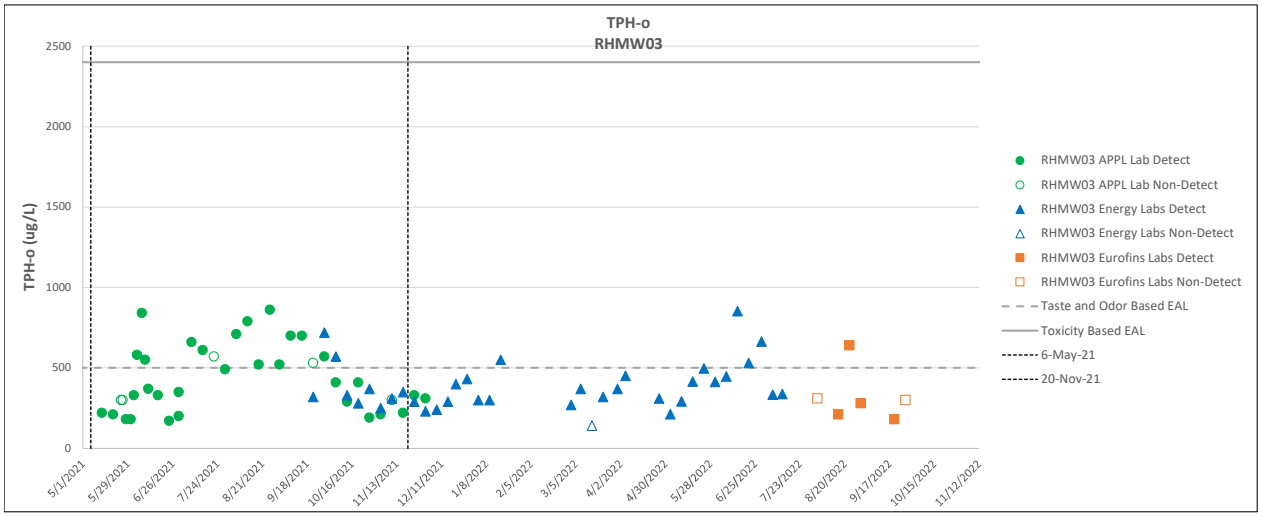
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW03 APPL Lab Detect
RHMW03 APPL Lab Non-Detect
RHMW03 Energy Labs Detect
RHMW03 Eurofins Labs Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW03
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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7/24/2021
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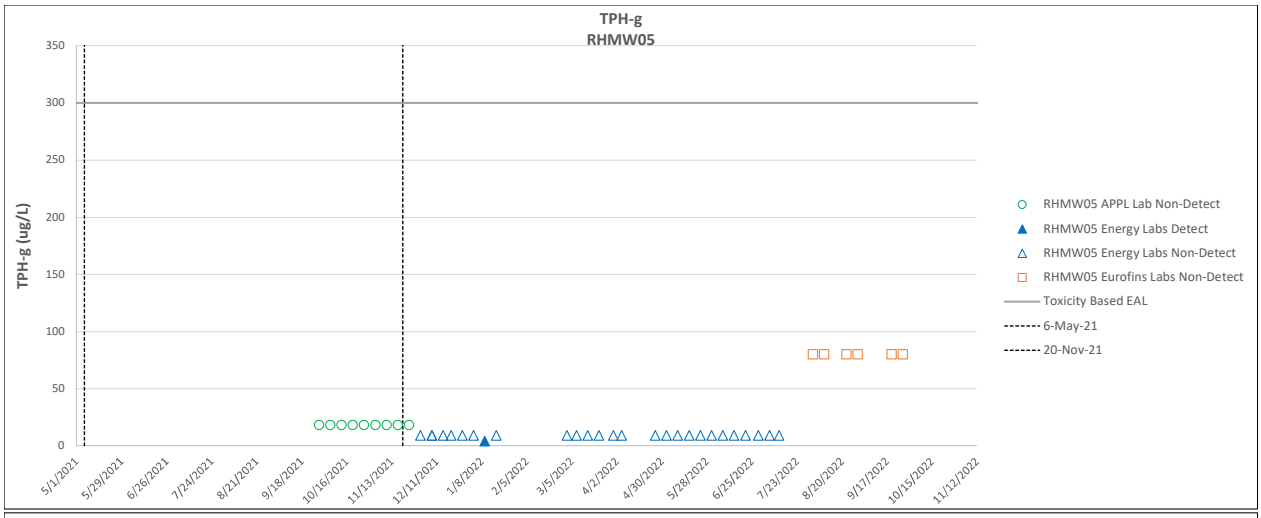
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW03 APPL Lab Detect
RHMW03 APPL Lab Non-Detect
RHMW03 Energy Labs Detect
RHMW03 Energy Labs Non-Detect
RHMW03 Eurofins Labs Detect
RHMW03 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW05
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
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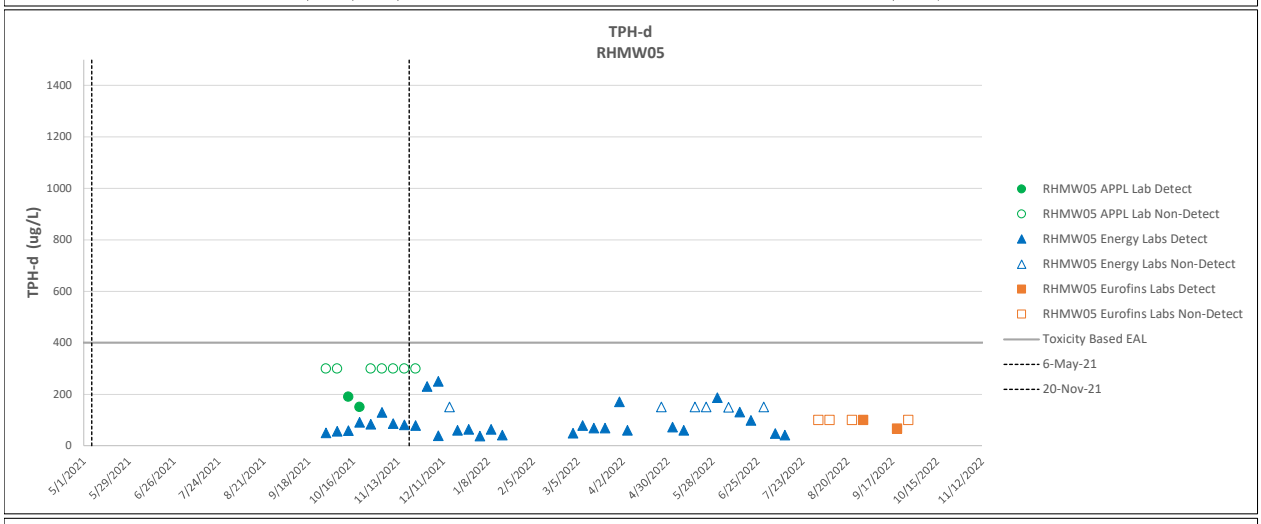
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW05 APPL Lab Non-Detect
RHMW05 Energy Labs Detect
RHMW05 Energy Labs Non-Detect
RHMW05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW05
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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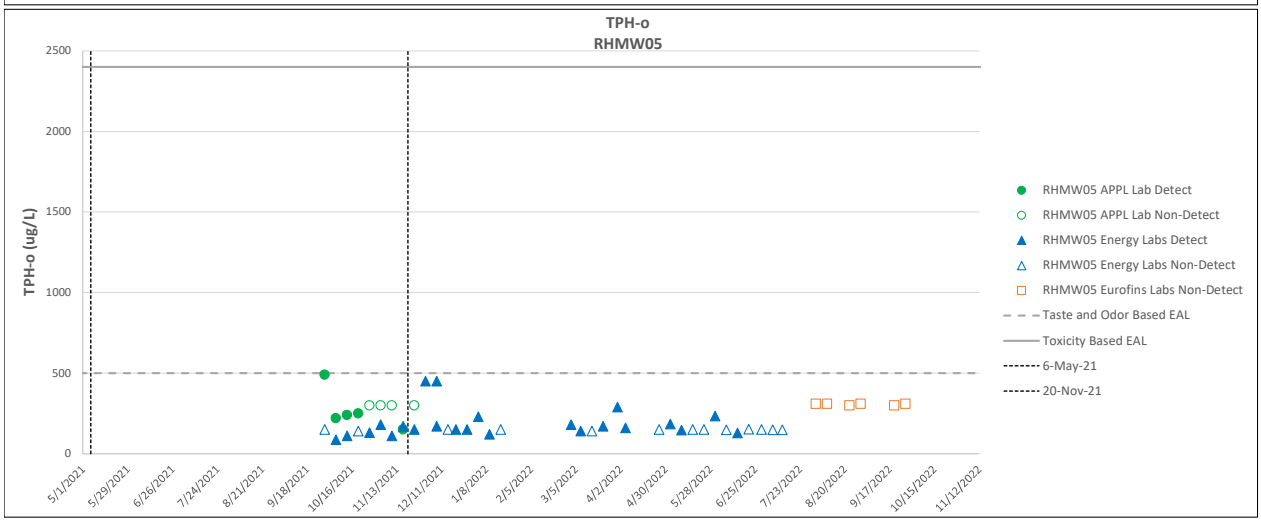
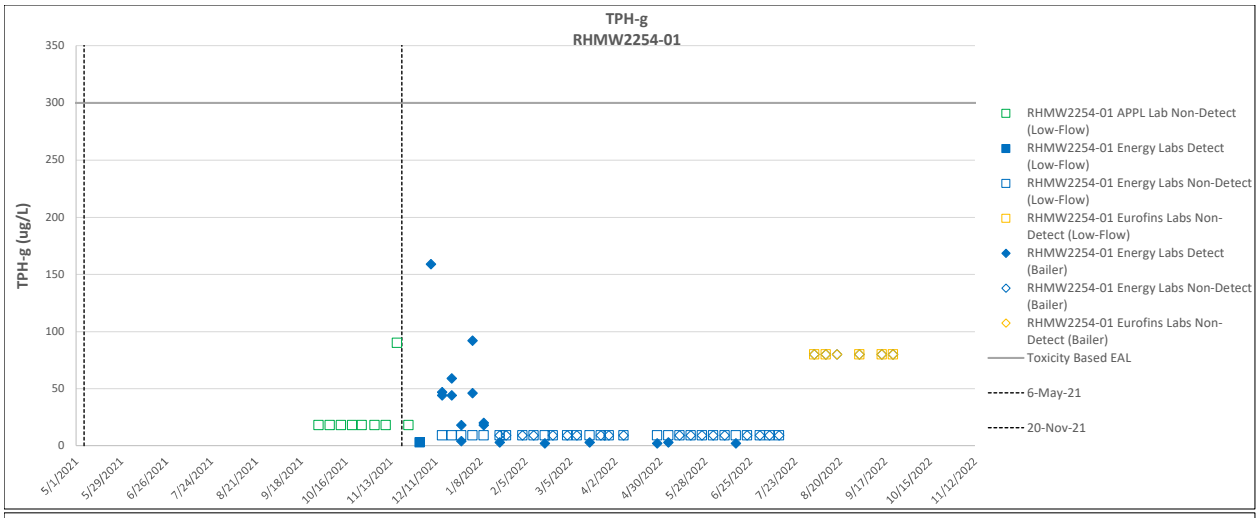
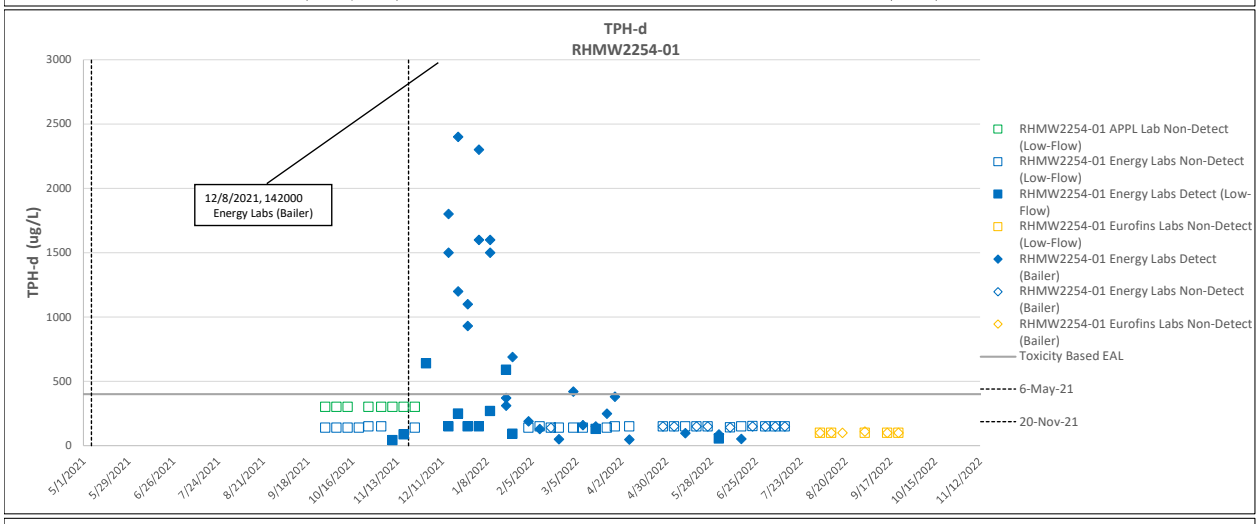
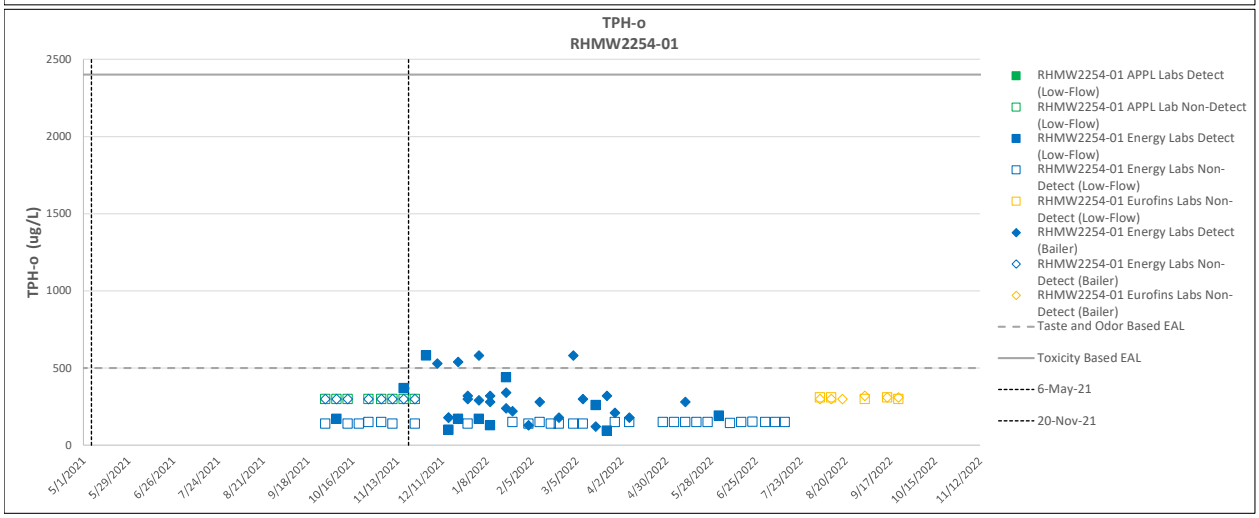
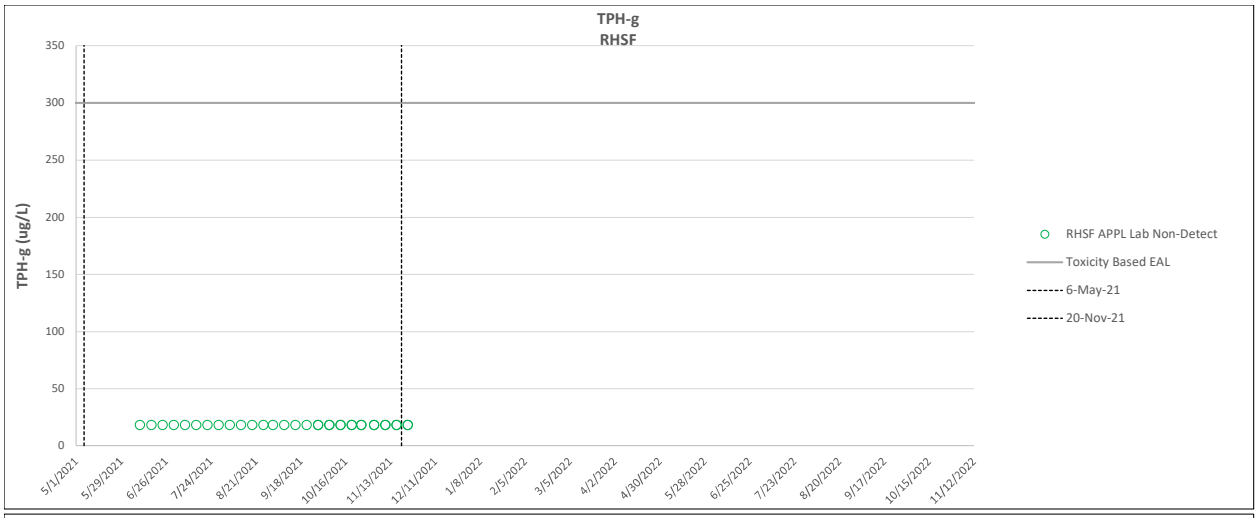
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW05 APPL Lab Detect
RHMW05 APPL Lab Non-Detect
RHMW05 Energy Labs Detect
RHMW05 Energy Labs Non-Detect
RHMW05 Eurofins Labs Detect
RHMW05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21

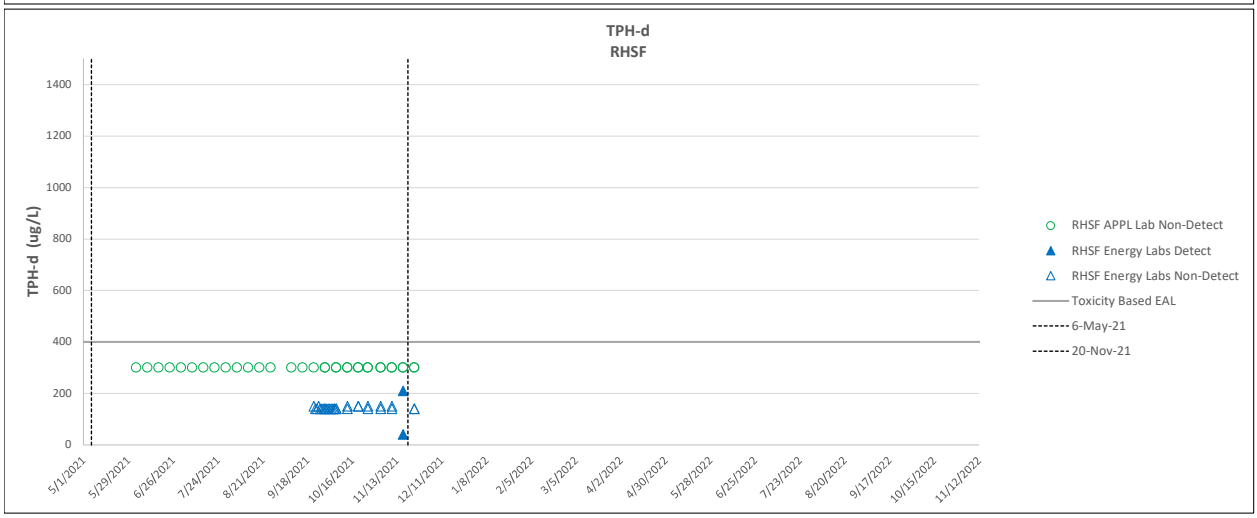

TPH-o
RHMW05
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW05 APPL Lab Detect
RHMW05 APPL Lab Non-Detect
RHMW05 Energy Labs Detect
RHMW05 Energy Labs Non-Detect
RHMW05 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21

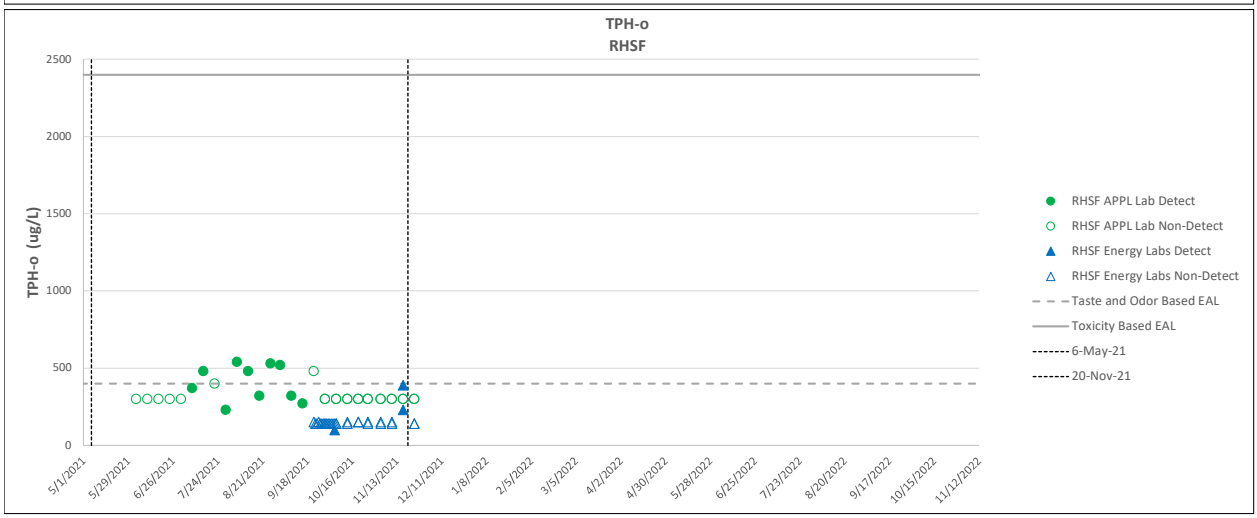

TPH-g
RHMW2254-01
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW2254-01 APPL Lab Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Low-Flow)
RHMW2254-01 Energy Labs Non-Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Bailer)
RHMW2254-01 Energy Labs Non-Detect (Bailer)
RHMW2254-01 Eurofins Labs Non-Detect (Bailer)
Toxicity Based EAL
6-May-21
20-Nov-21

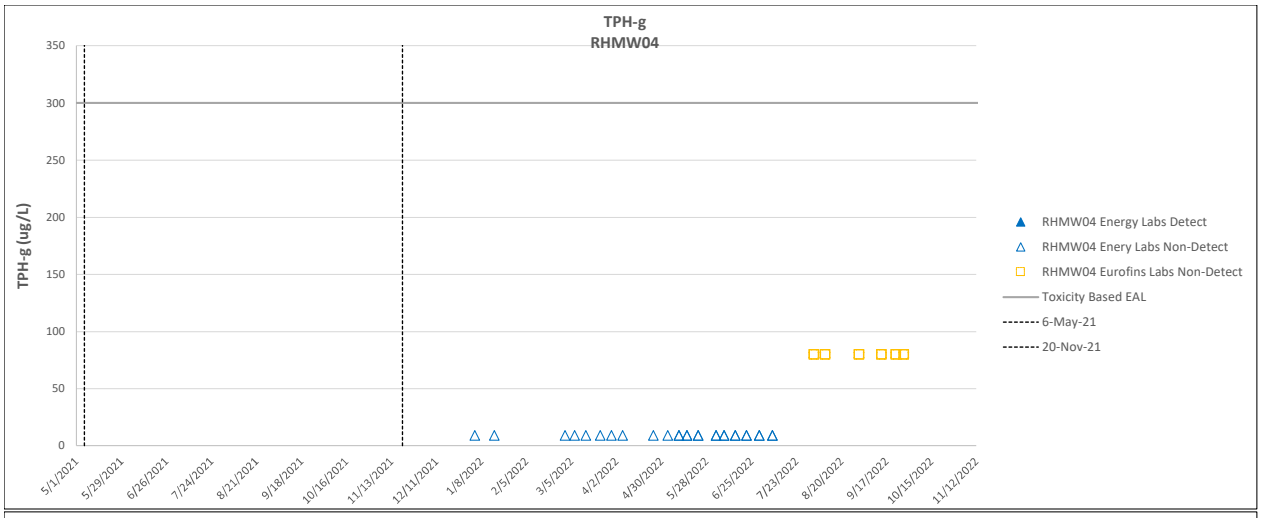

TPH-d
RHMW2254-01
TPH-d (ug/L)
3000
2500
2000
1500
1000
500
0
12/8/2021, 142000
Energy Labs (Bailer)
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW2254-01 APPL Lab Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Bailer)
RHMW2254-01 Energy Labs Non-Detect (Bailer)
RHMW2254-01 Eurofins Labs Non-Detect (Bailer)
Toxicity Based EAL
6-May-21
20-Nov-21

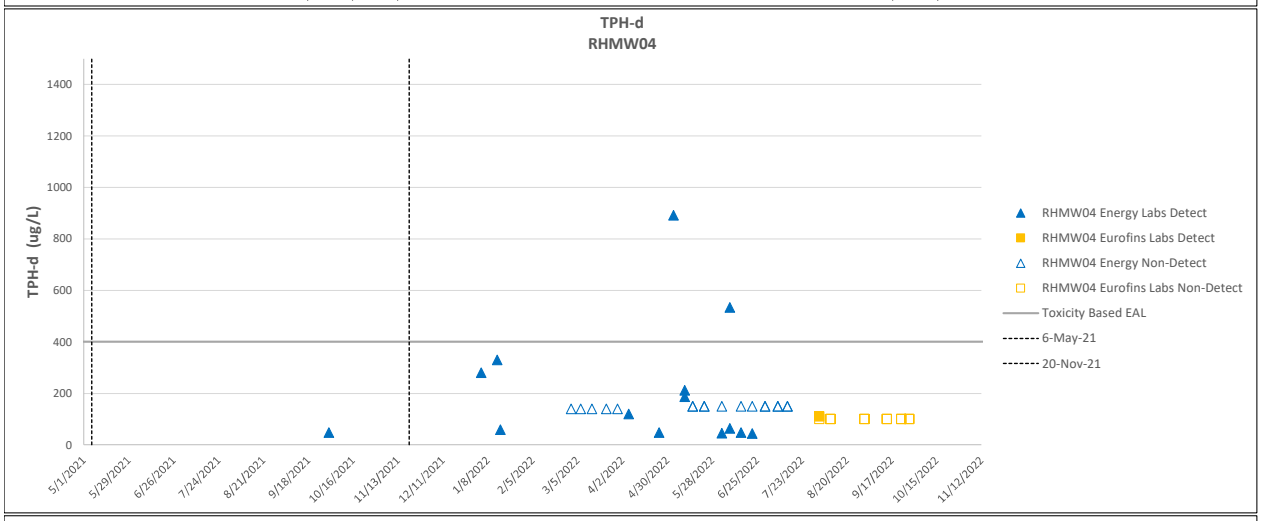

TPH-o
RHMW2254-01
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW2254-01 APPL Labs Detect (Low-Flow)
RHMW2254-01 APPL Lab Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Low-Flow)
RHMW2254-01 Energy Labs Non-Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Bailer)
RHMW2254-01 Energy Labs Non-Detect (Bailer)
RHMW2254-01 Eurofins Labs Non-Detect (Bailer)
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21

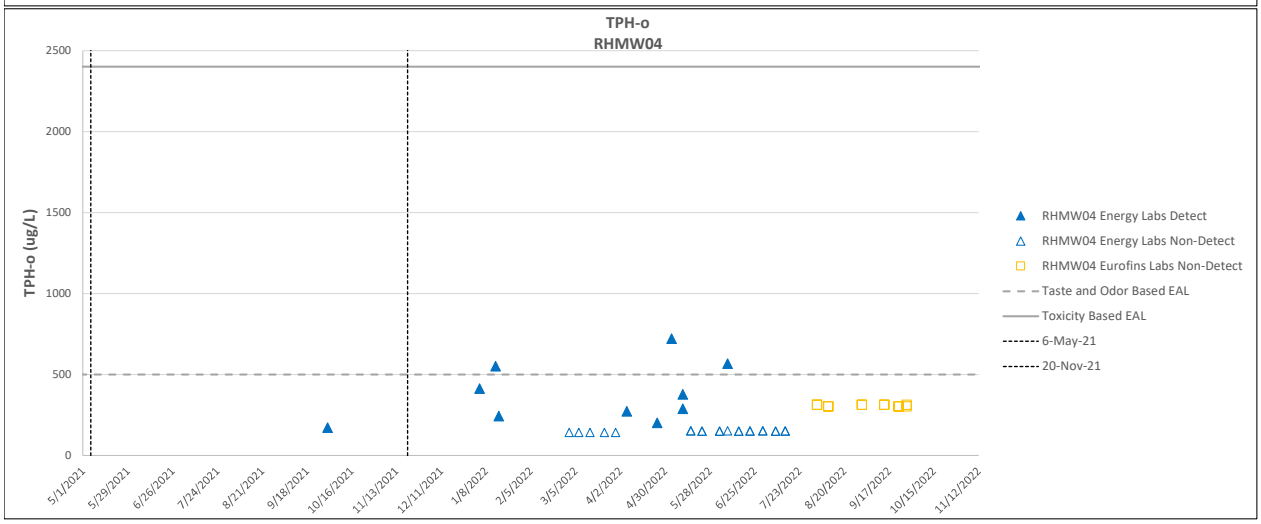

TPH-g
RHSF
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHSF APPL Lab Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHSF
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHSF APPL Lab Non-Detect
RHSF Energy Labs Detect
RHSF Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHSF
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHSF APPL Lab Detect
RHSF APPL Lab Non-Detect
RHSF Energy Labs Detect
RHSF Energy Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW04
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW04 Energy Labs Detect
RHMW04 Enery Labs Non-Detect
RHMW04 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW04
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW04 Energy Labs Detect
RHMW04 Eurofins Labs Detect
RHMW04 Energy Non-Detect
RHMW04 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW04
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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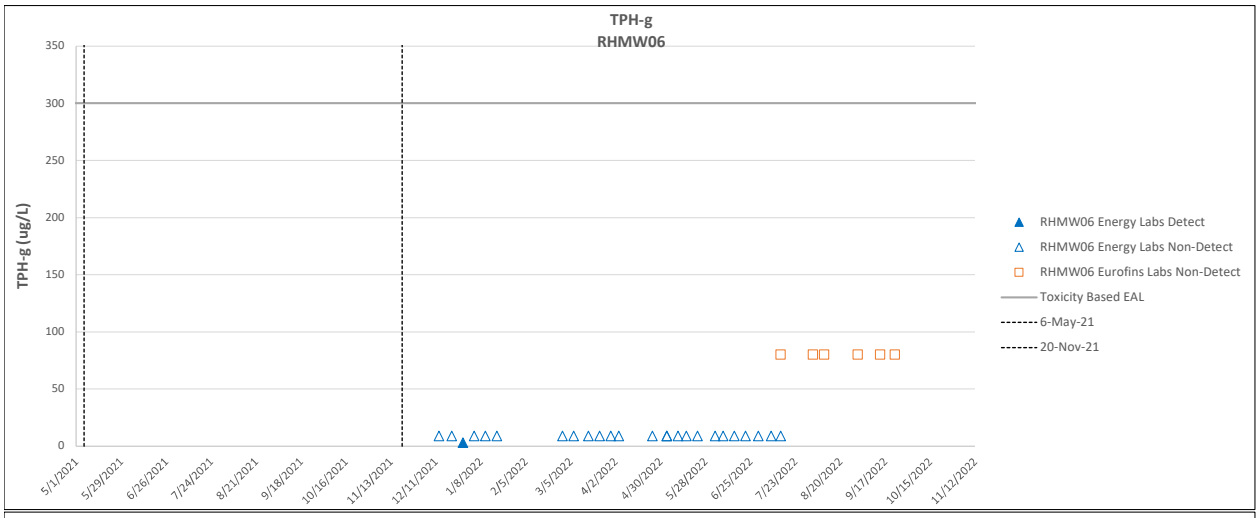
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW04 Energy Labs Detect
RHMW04 Energy Labs Non-Detect
RHMW04 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW06
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
5/29/2021
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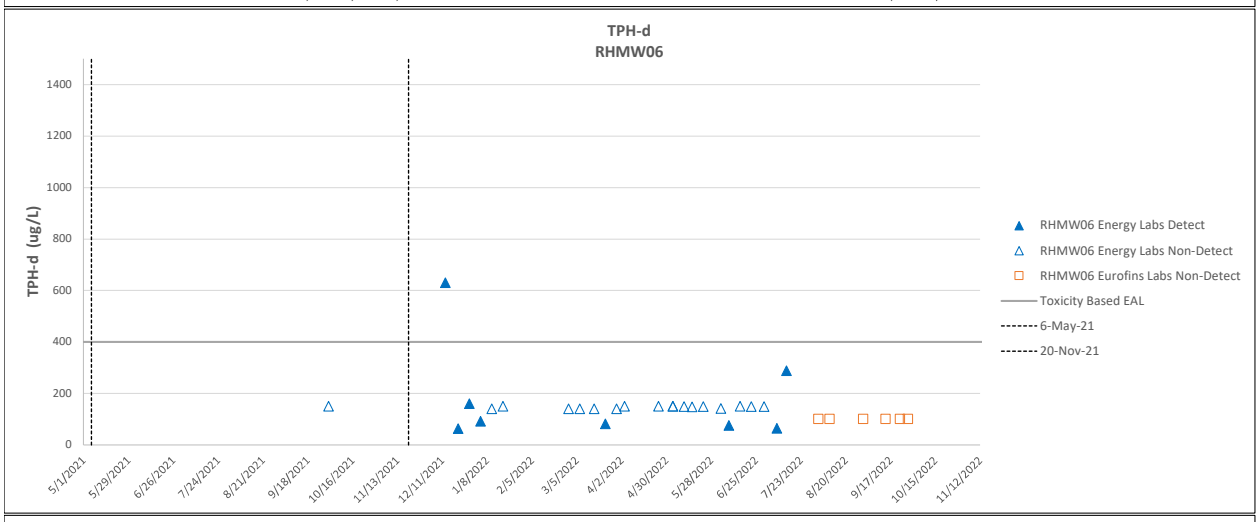
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW06 Energy Labs Detect
RHMW06 Energy Labs Non-Detect
RHMW06 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW06
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
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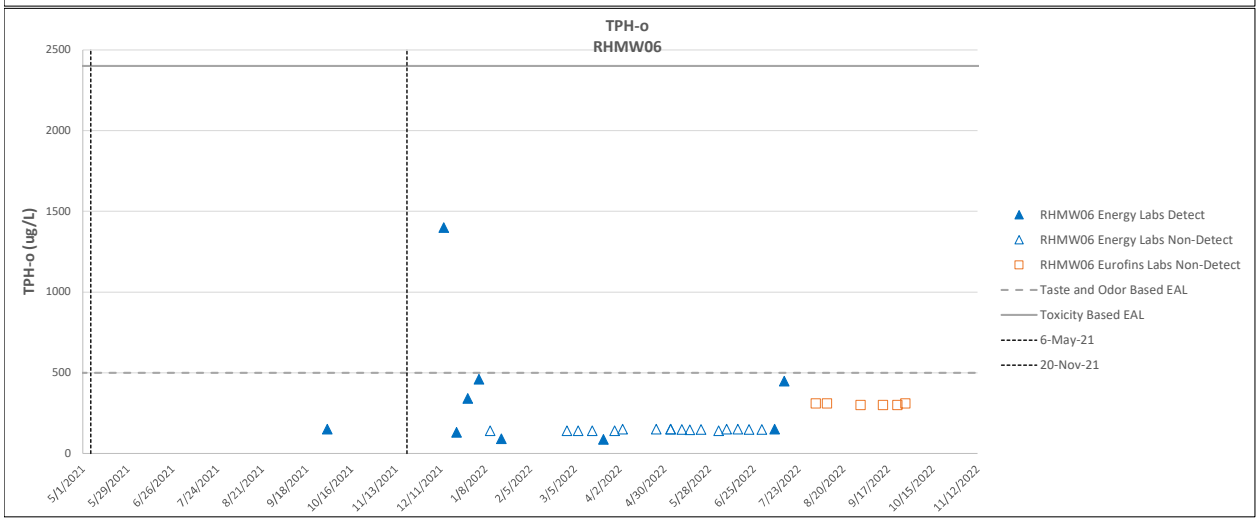
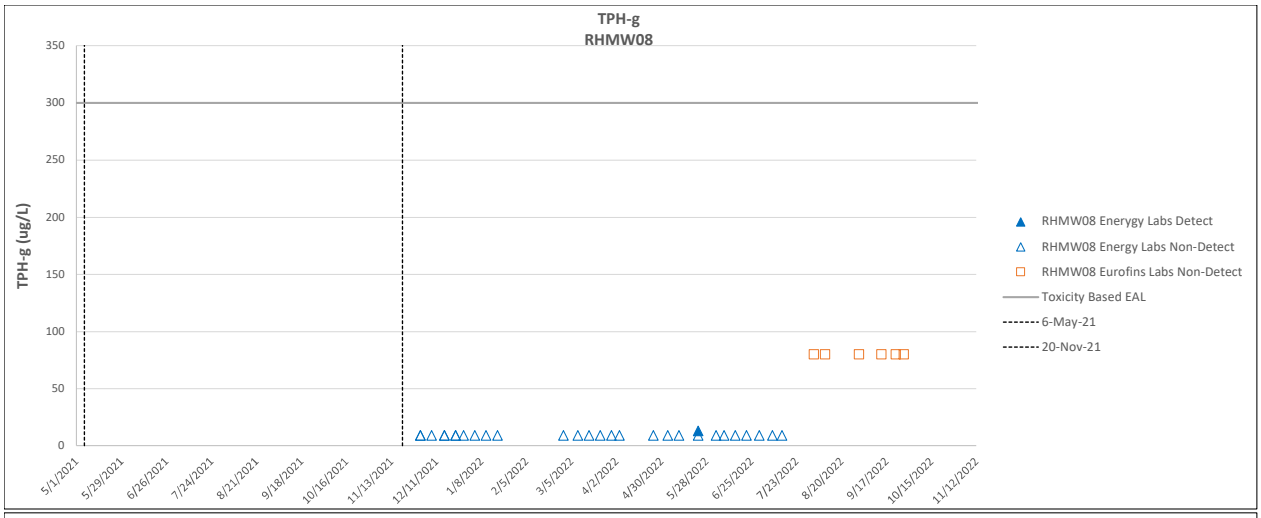
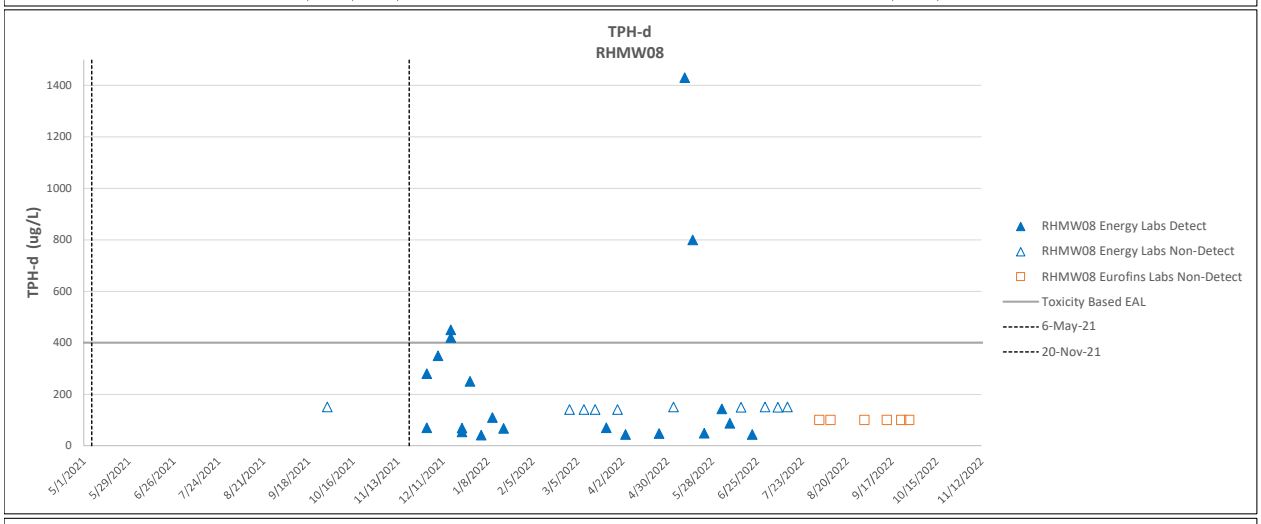
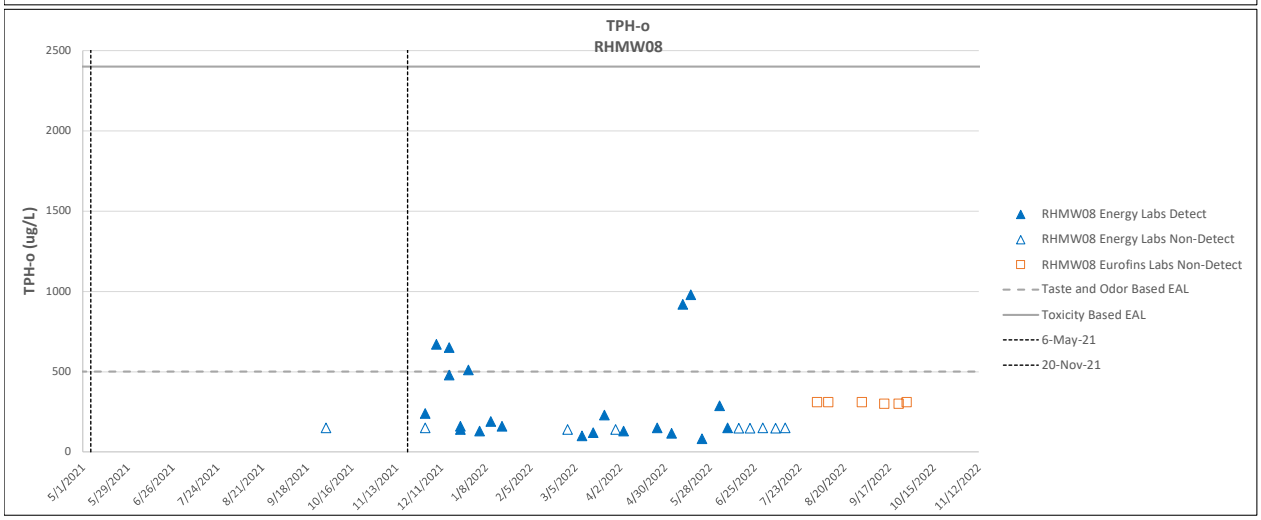
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW06 Energy Labs Detect
RHMW06 Energy Labs Non-Detect
RHMW06 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW06
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW06 Energy Labs Detect
RHMW06 Energy Labs Non-Detect
RHMW06 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21

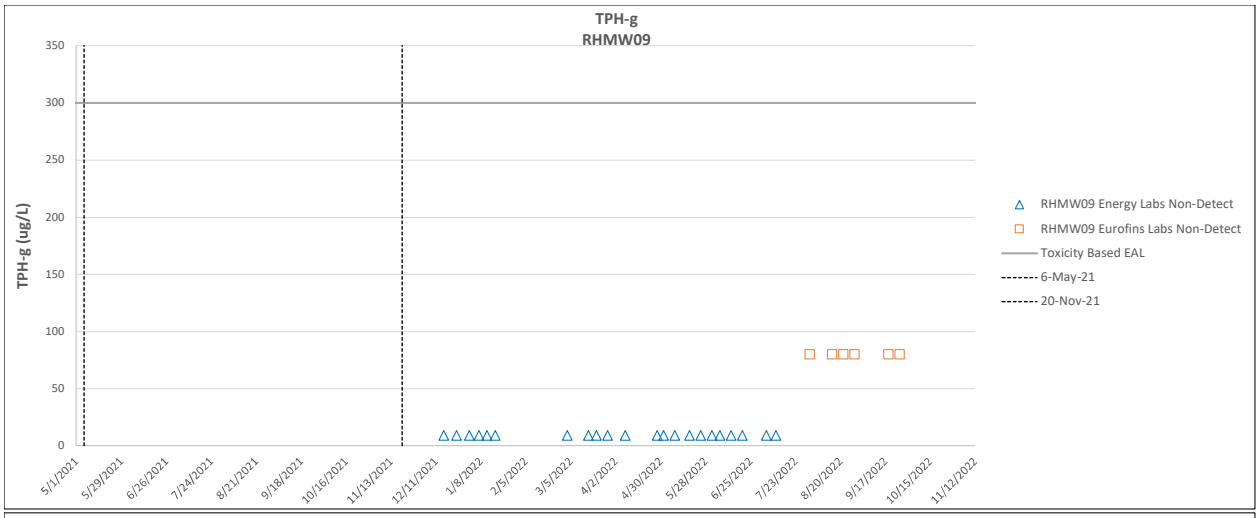


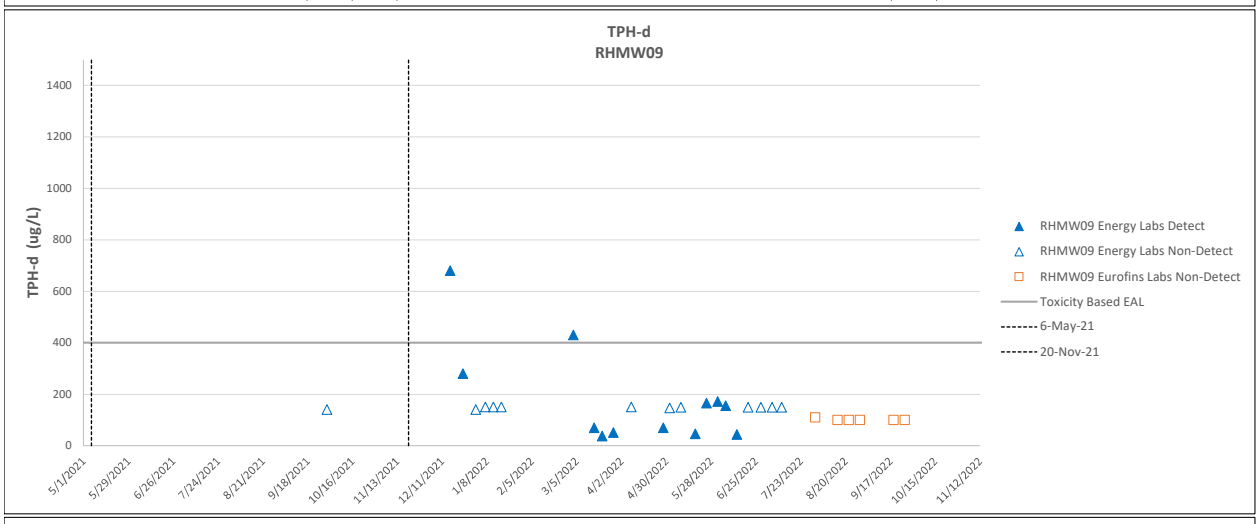




Notes:

[1] Sample collected 12/1/2021 was reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.


TPH-g
RHMW09
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW09 Energy Labs Non-Detect
RHMW09 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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RHMW09
TPH-d (ug/L)
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200
0
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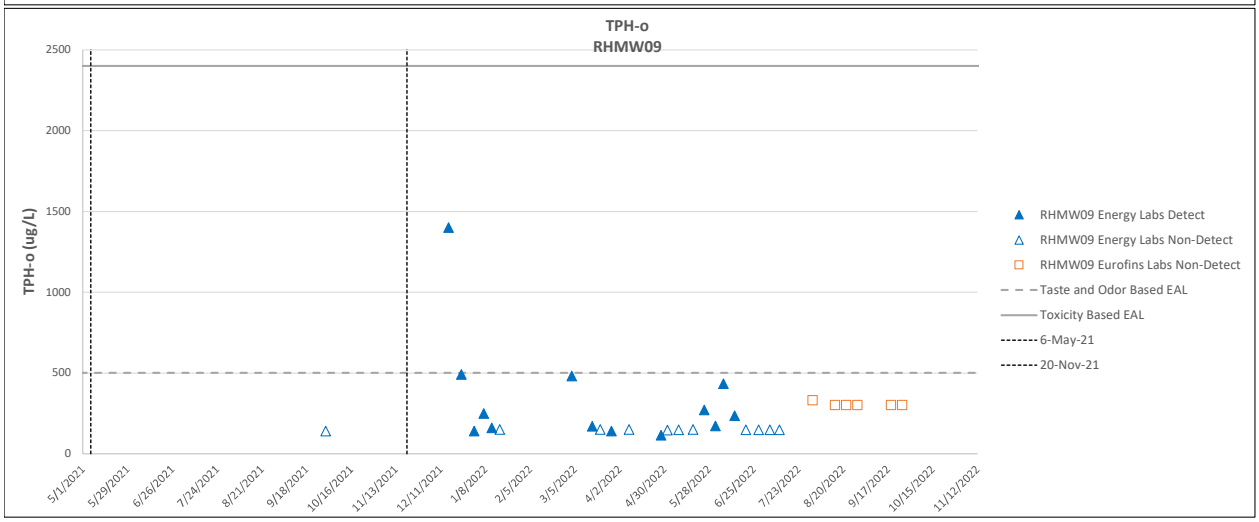
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW09 Energy Labs Detect
RHMW09 Energy Labs Non-Detect
RHMW09 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW09
TPH-o (ug/L)
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2000
1500
1000
500
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5/29/2021
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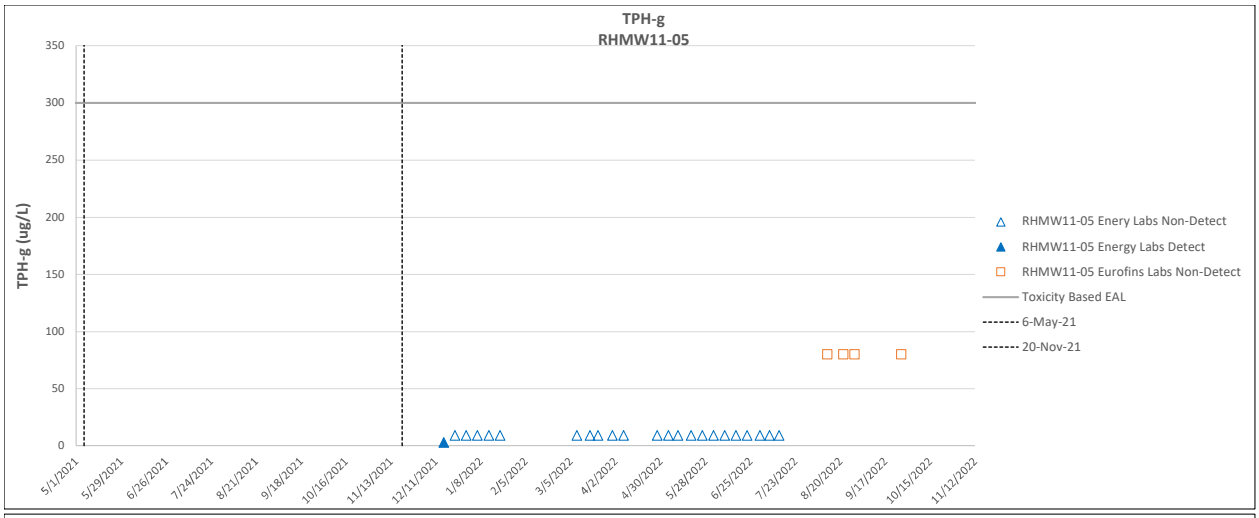
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW09 Energy Labs Detect
RHMW09 Energy Labs Non-Detect
RHMW09 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-g (ug/L)
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200
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100
50
0
5/1/2021
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10/16/2021
11/13/2021
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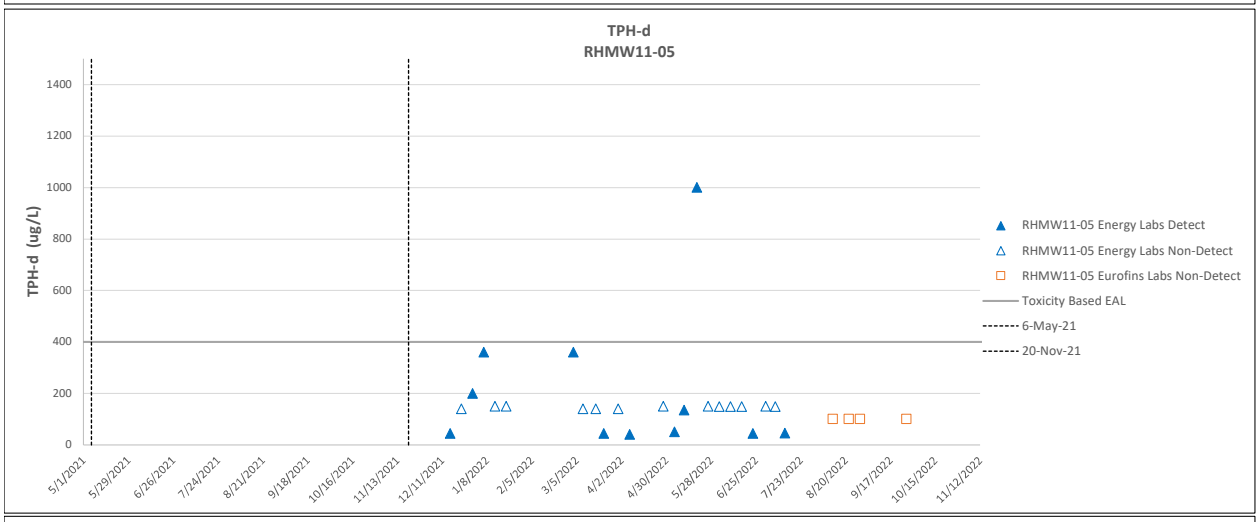
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW11-05 Enery Labs Non-Detect
RHMW11-05 Energy Labs Detect
RHMW11-05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW11-05
TPH-d (ug/L)
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1200
1000
800
600
400
200
0
5/1/2021
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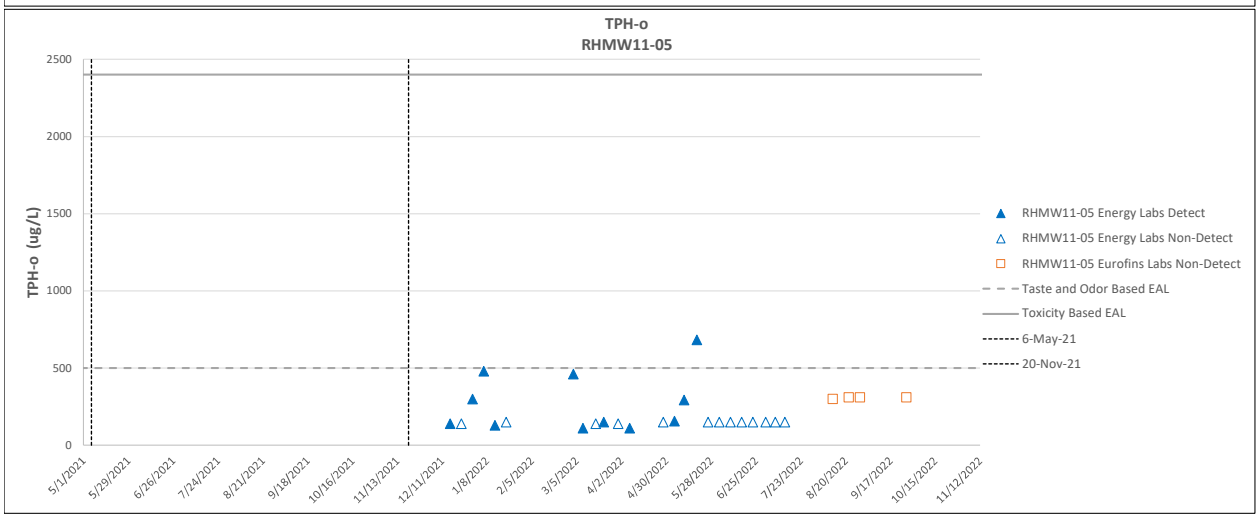
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW11-05 Energy Labs Detect
RHMW11-05 Energy Labs Non-Detect
RHMW11-05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW11-05
TPH-o (ug/L)
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2000
1500
1000
500
0
5/1/2021
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7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
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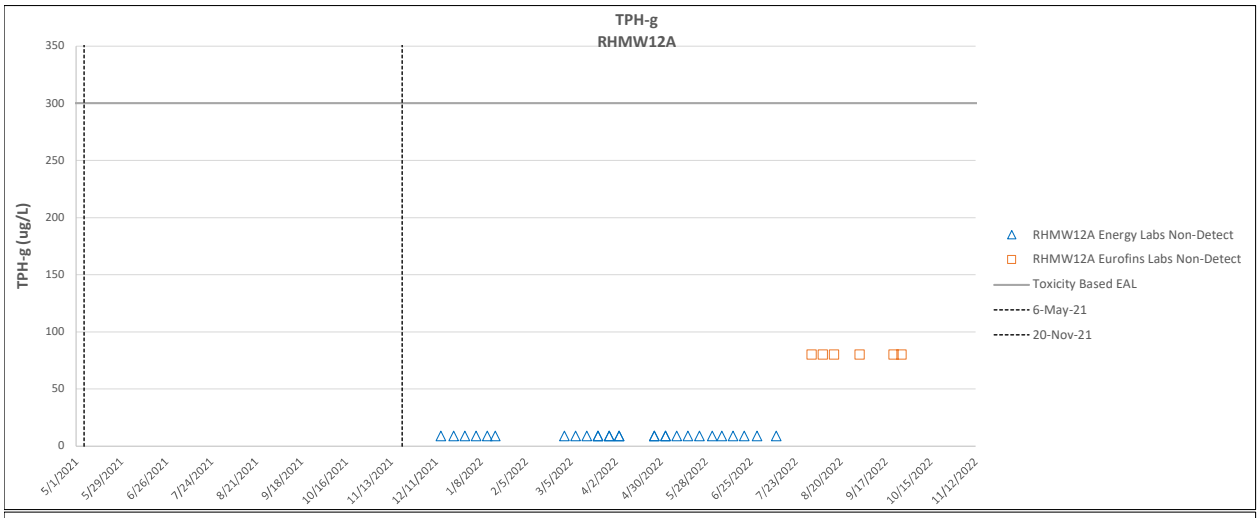
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW11-05 Energy Labs Detect
RHMW11-05 Energy Labs Non-Detect
RHMW11-05 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
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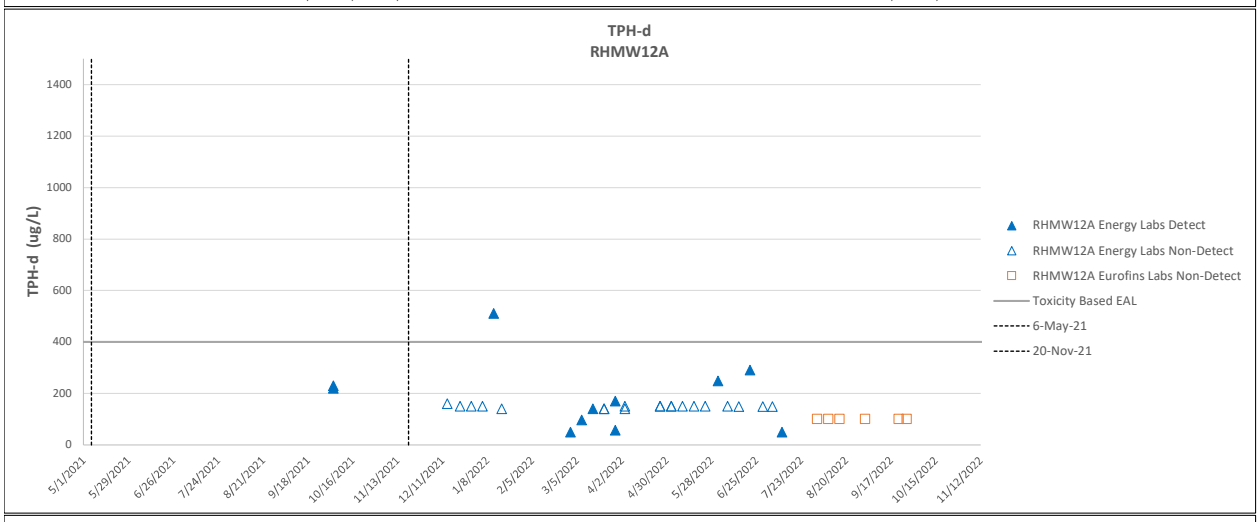
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW12A Energy Labs Non-Detect
RHMW12A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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RHMW12A
TPH-d (ug/L)
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1200
1000
800
600
400
200
0
5/1/2021
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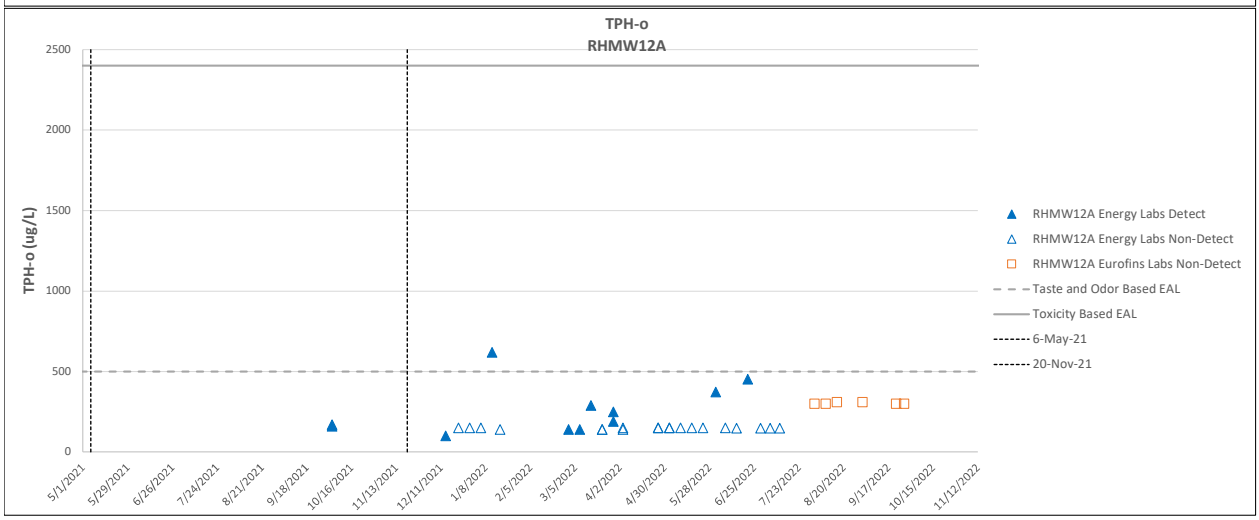
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW12A Energy Labs Detect
RHMW12A Energy Labs Non-Detect
RHMW12A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW12A
TPH-o (ug/L)
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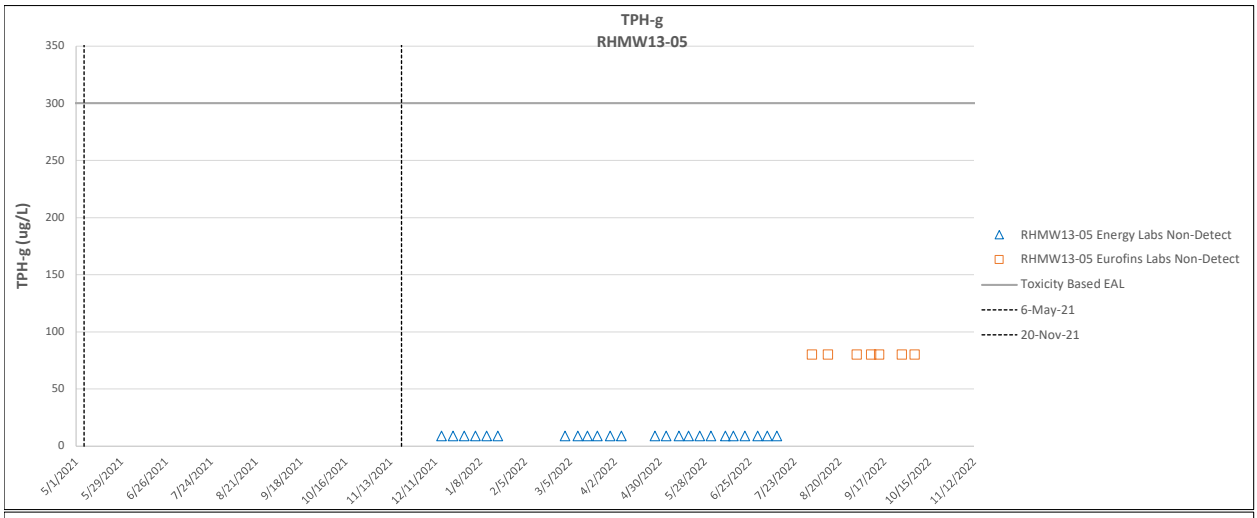
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW12A Energy Labs Detect
RHMW12A Energy Labs Non-Detect
RHMW12A Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-g (ug/L)
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200
150
100
50
0
5/1/2021
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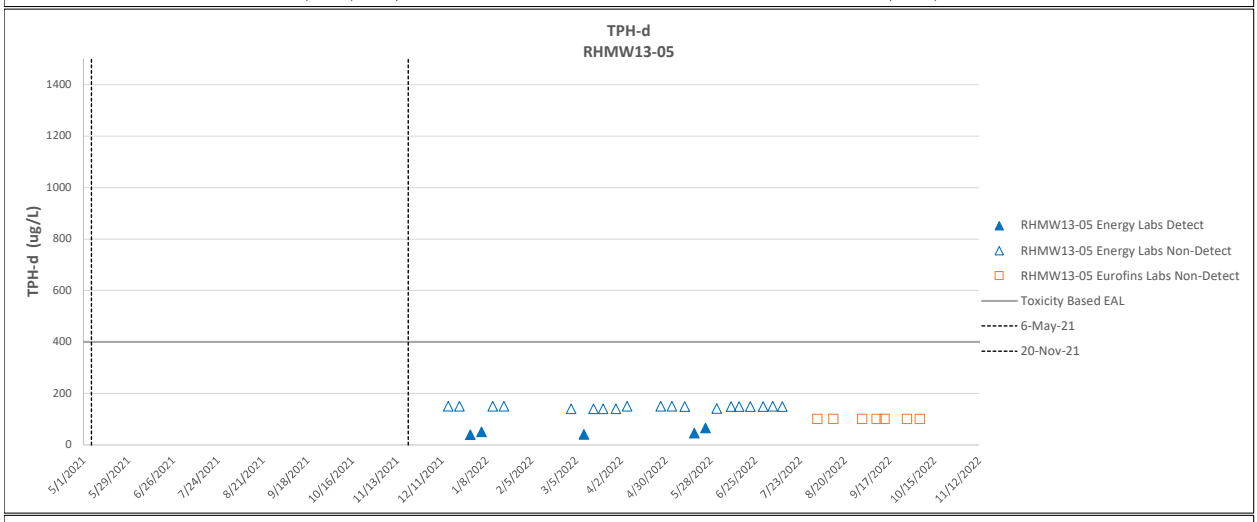
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW13-05 Energy Labs Non-Detect
RHMW13-05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW13-05
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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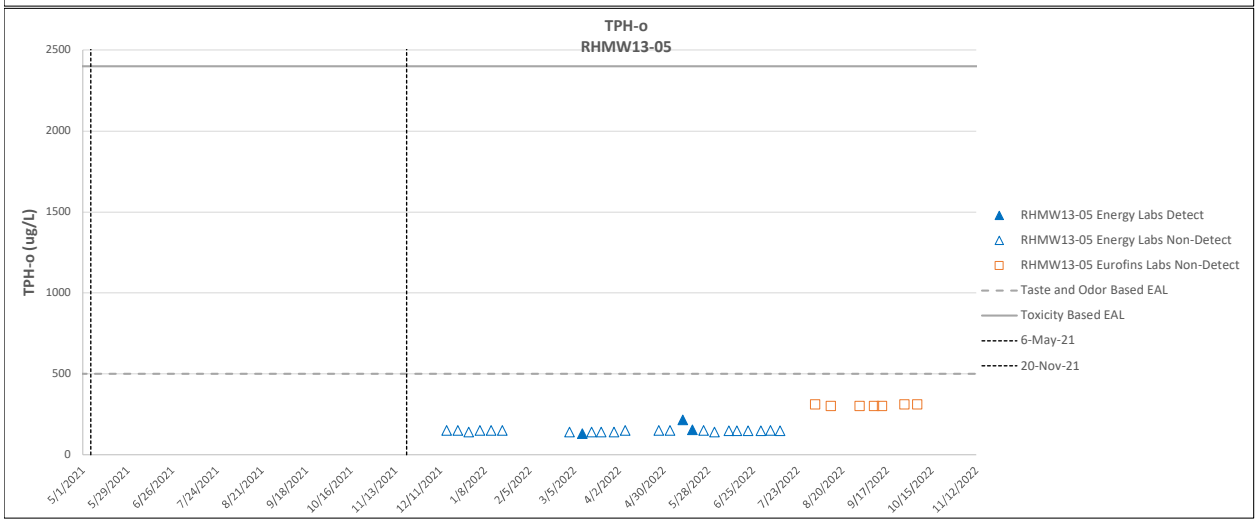
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW13-05 Energy Labs Detect
RHMW13-05 Energy Labs Non-Detect
RHMW13-05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW13-05
TPH-o (ug/L)
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2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
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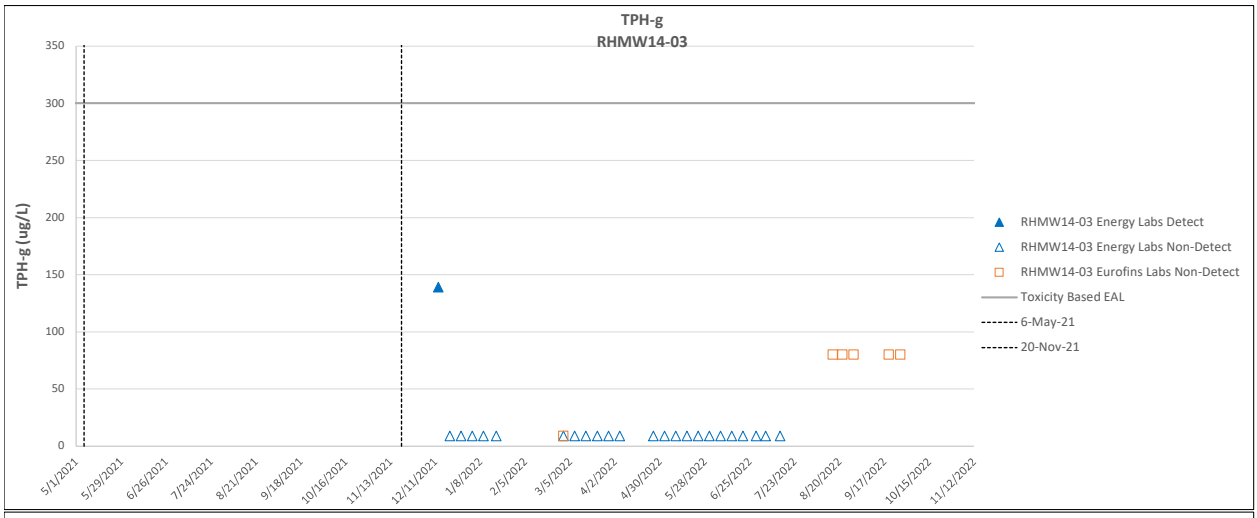
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW13-05 Energy Labs Detect
RHMW13-05 Energy Labs Non-Detect
RHMW13-05 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW14-03
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
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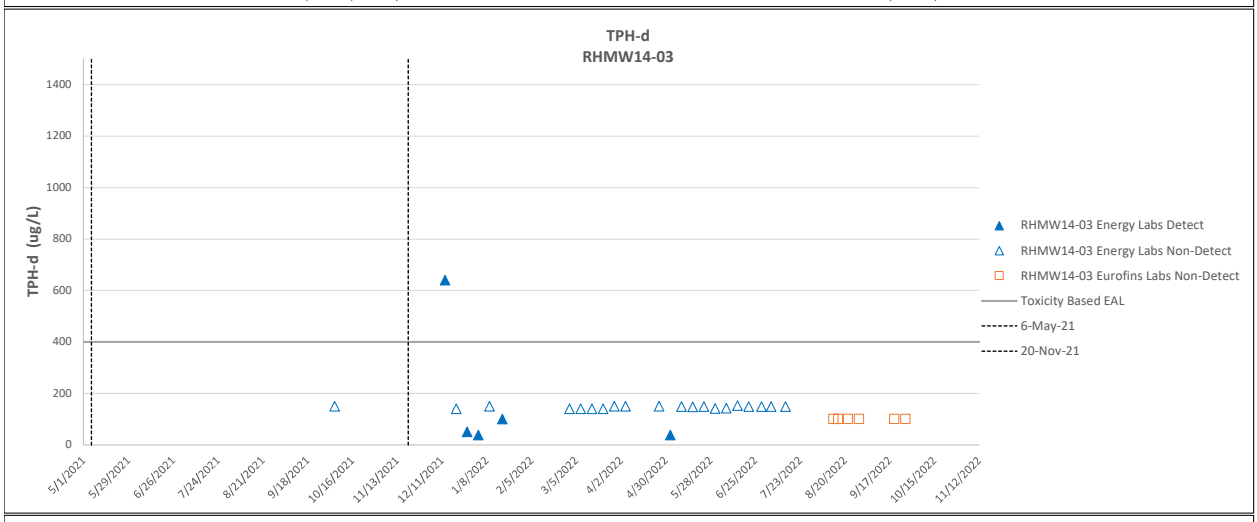
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW14-03 Energy Labs Detect
RHMW14-03 Energy Labs Non-Detect
RHMW14-03 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW14-03
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
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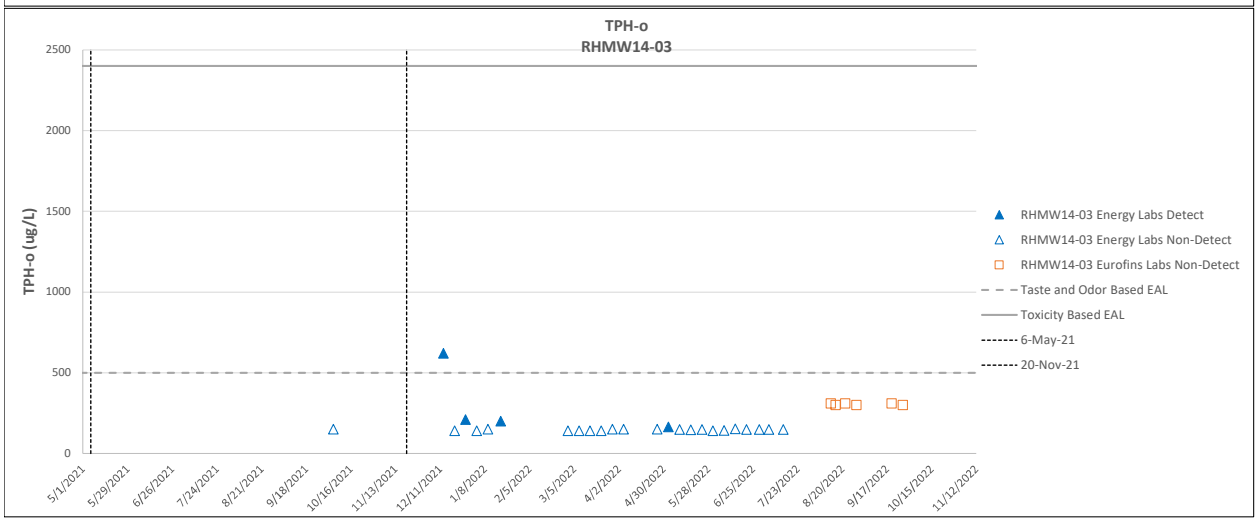
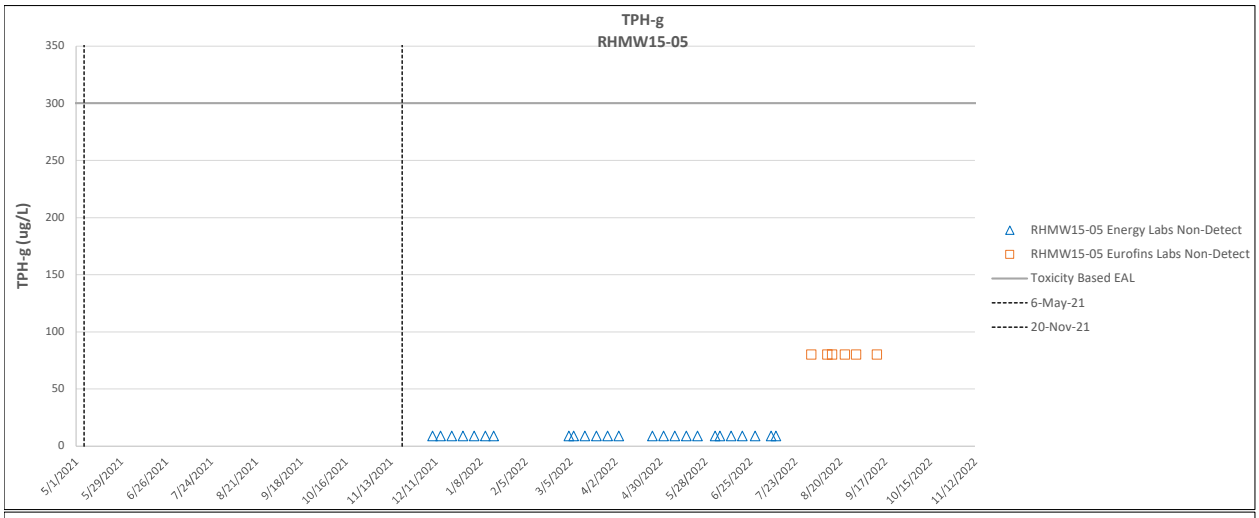
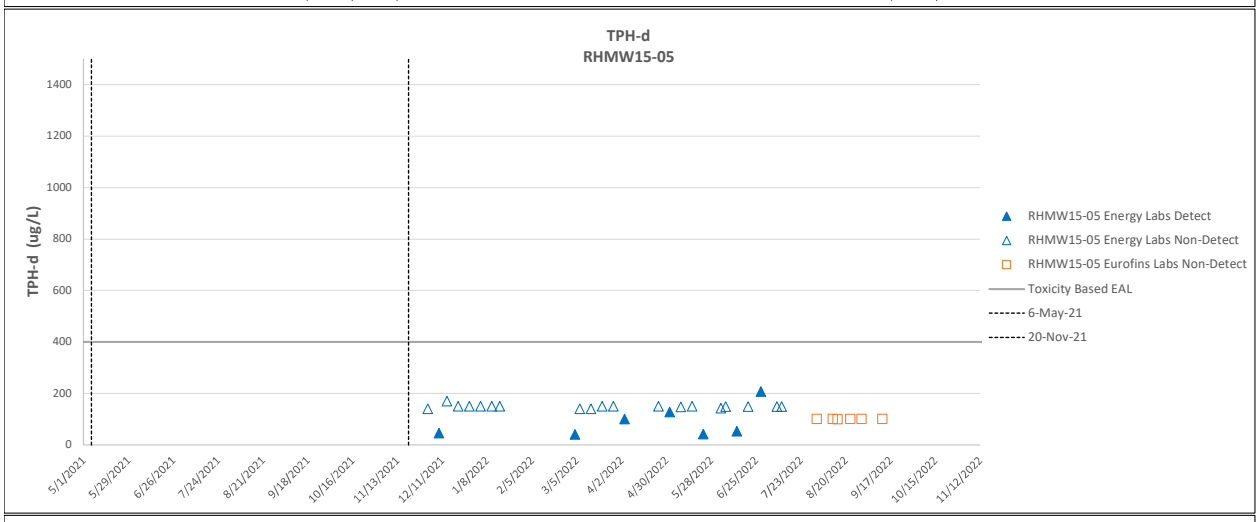
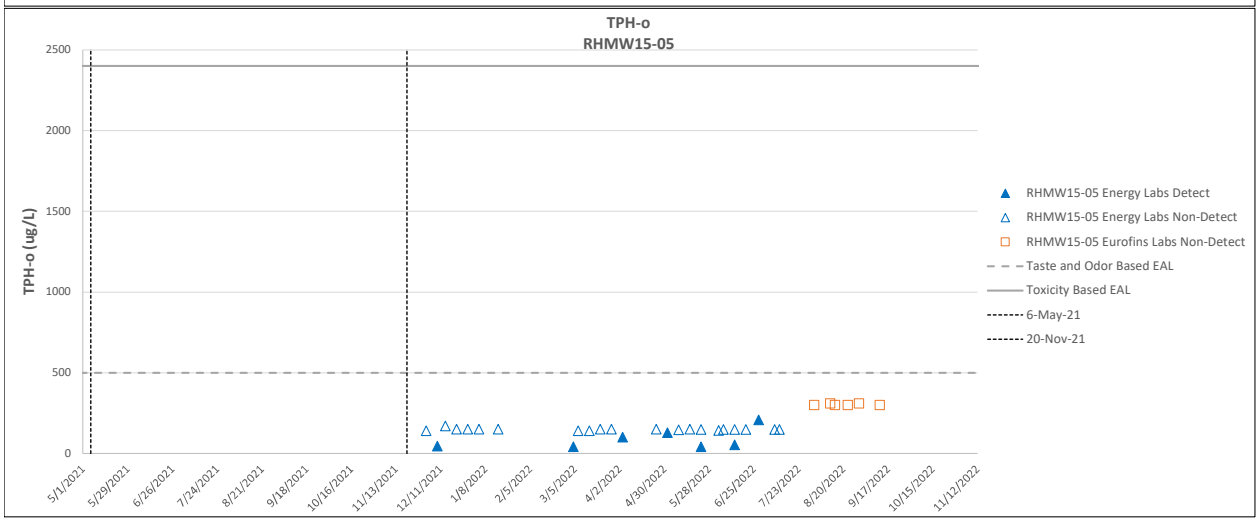
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW14-03 Energy Labs Detect
RHMW14-03 Energy Labs Non-Detect
RHMW14-03 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW14-03
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW14-03 Energy Labs Detect
RHMW14-03 Energy Labs Non-Detect
RHMW14-03 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21

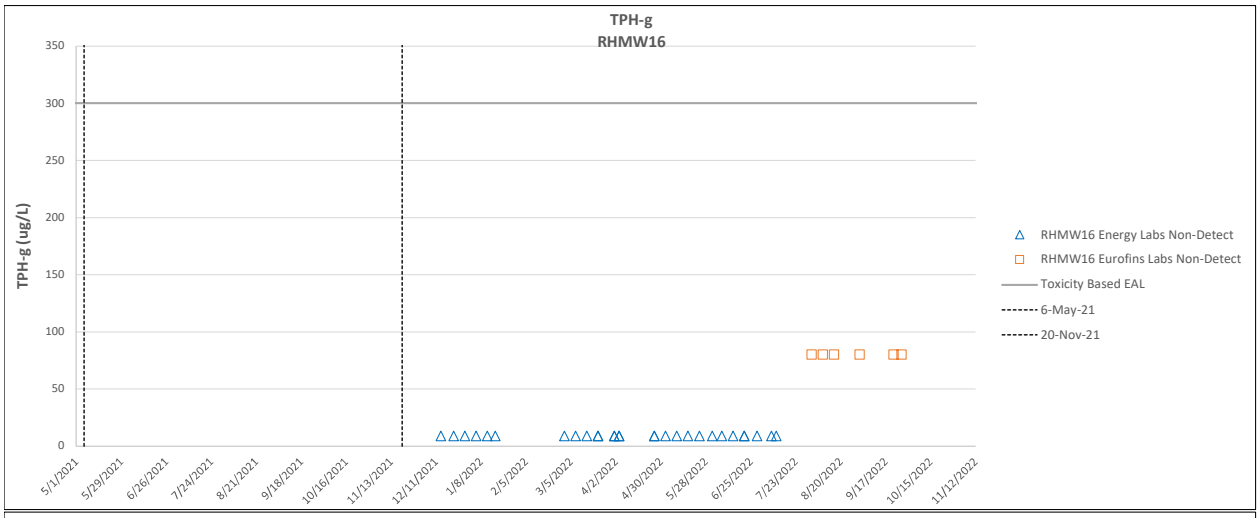






Notes:

[1] Sample collected 12/2/2021 was reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.


TPH-g
RHMW16
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
5/29/2021
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8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
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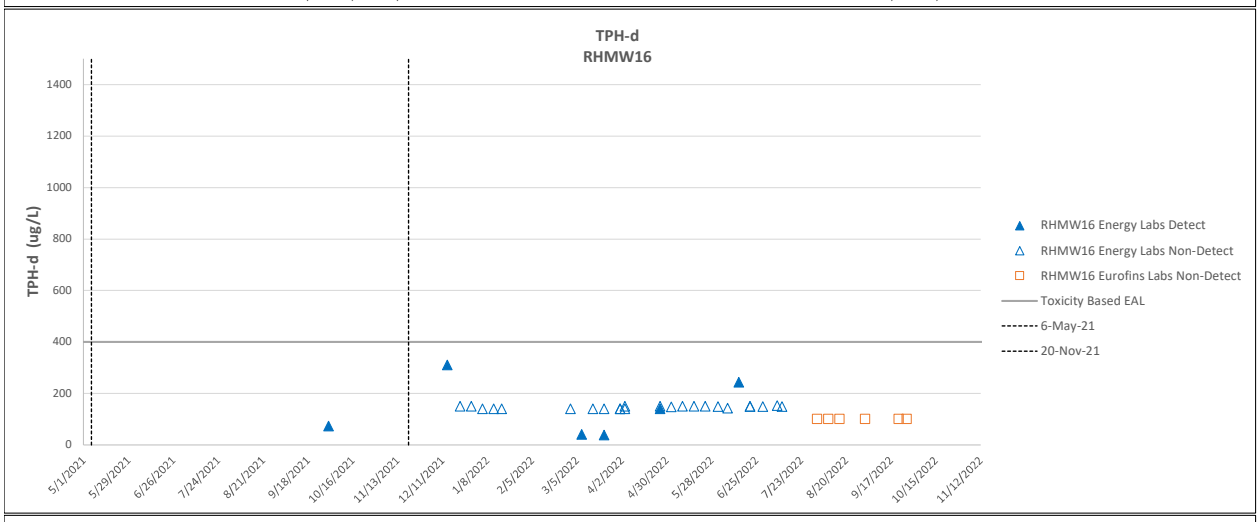
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW16 Energy Labs Non-Detect
RHMW16 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW16
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
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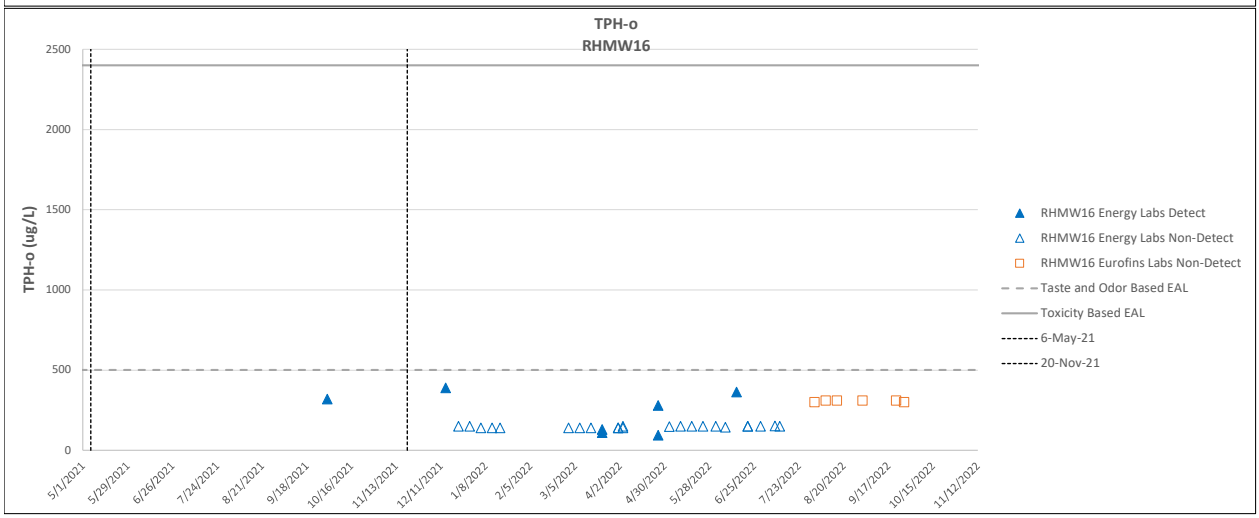
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW16 Energy Labs Detect
RHMW16 Energy Labs Non-Detect
RHMW16 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW16
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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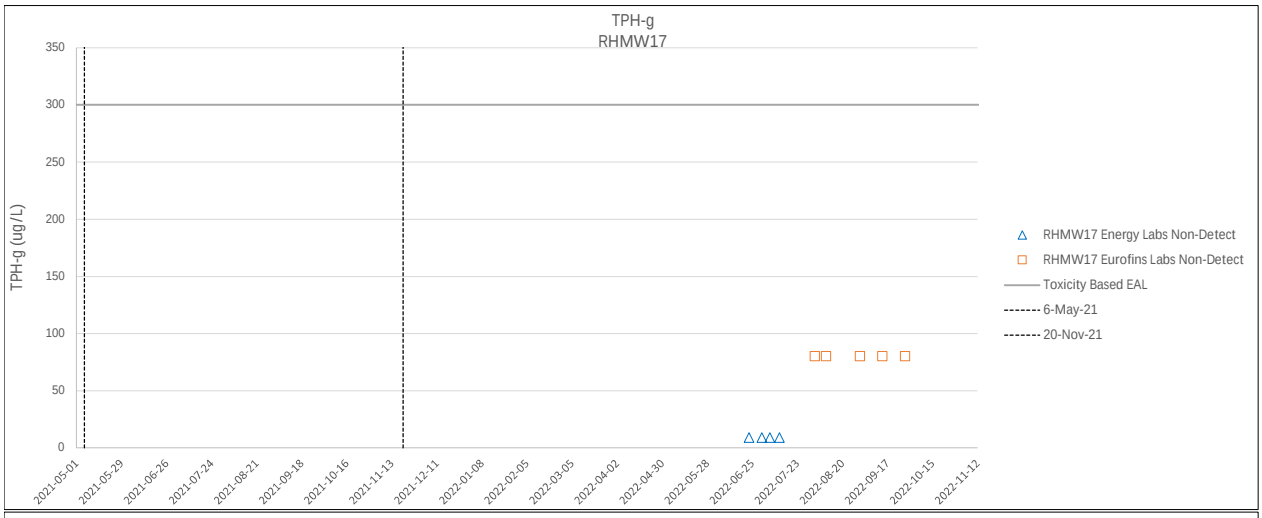
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW16 Energy Labs Detect
RHMW16 Energy Labs Non-Detect
RHMW16 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW17
TPH-g (ug/L)
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300
250
200
150
100
50
0
2021-05-01
2021-05-29
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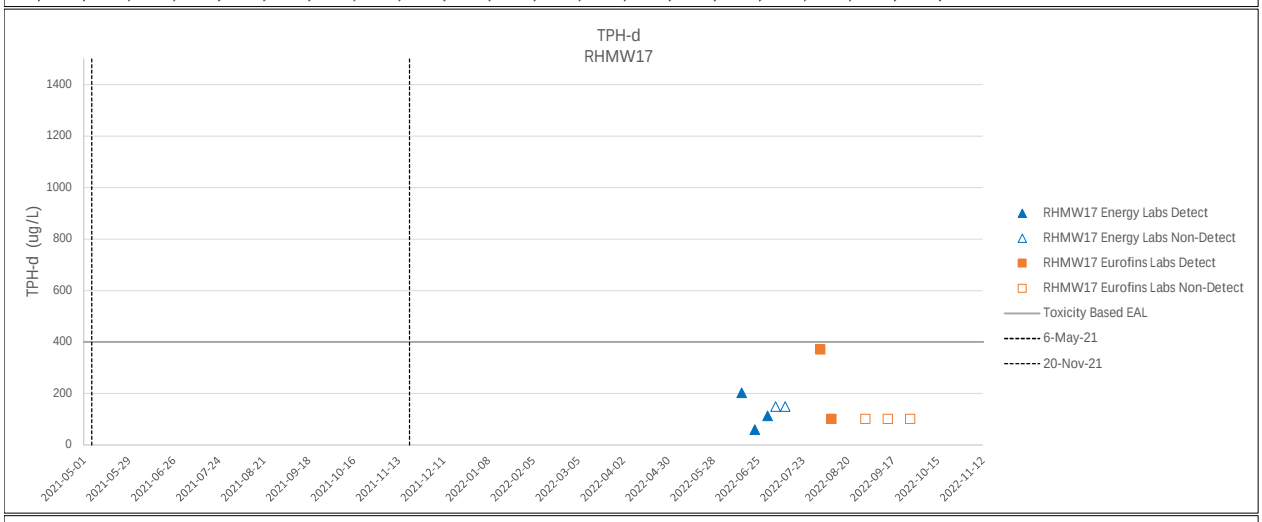
2021-07-24
2021-08-21
2021-09-18
2021-10-16
2021-11-13
2021-12-11
2022-01-08
2022-02-05
2022-03-05
2022-04-02
2022-04-30
2022-05-28
2022-06-25
2022-07-23
2022-08-20
2022-09-17
2022-10-15
2022-11-12
RHMW17 Energy Labs Non-Detect
RHMW17 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW17
TPH-d (ug/L)
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1200
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800
600
400
200
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2021-05-01
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2021-06-26
2021-07-24
2021-08-21
2021-09-18
2021-10-16
2021-11-13
2021-12-11
2022-01-08
2022-02-05
2022-03-05
2022-04-02
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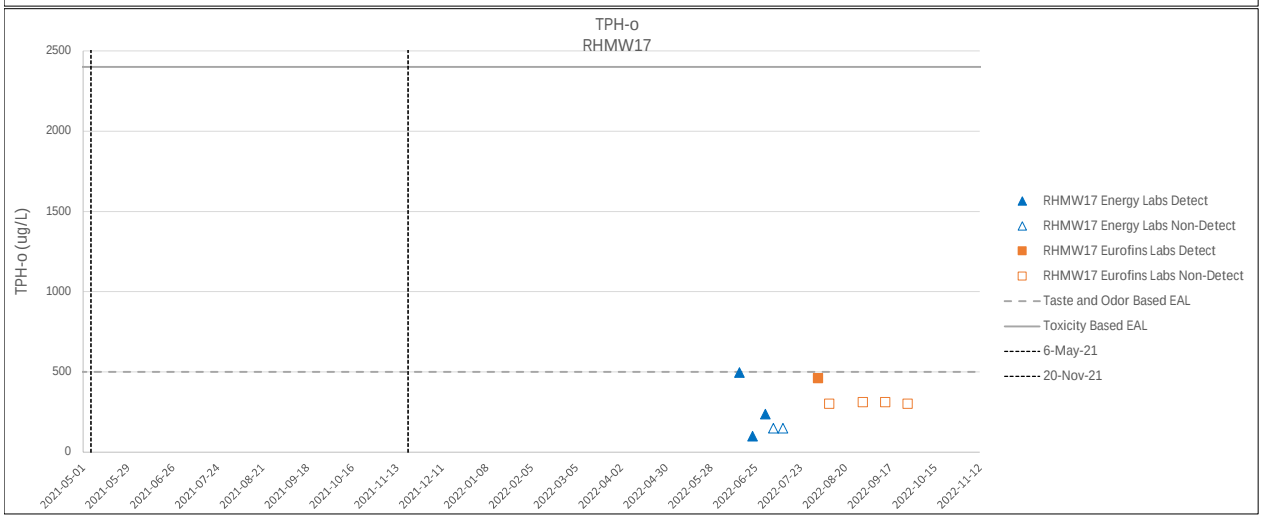
2022-07-23
2022-08-20
2022-09-17
2022-10-15
2022-11-12
RHMW17 Energy Labs Detect
RHMW17 Energy Labs Non-Detect
RHMW17 Eurofins Labs Detect
RHMW17 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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1000
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2021-07-24
2021-08-21
2021-09-18
2021-10-16
2021-11-13
2021-12-11
2022-01-08
2022-02-05
2022-03-05
2022-04-02
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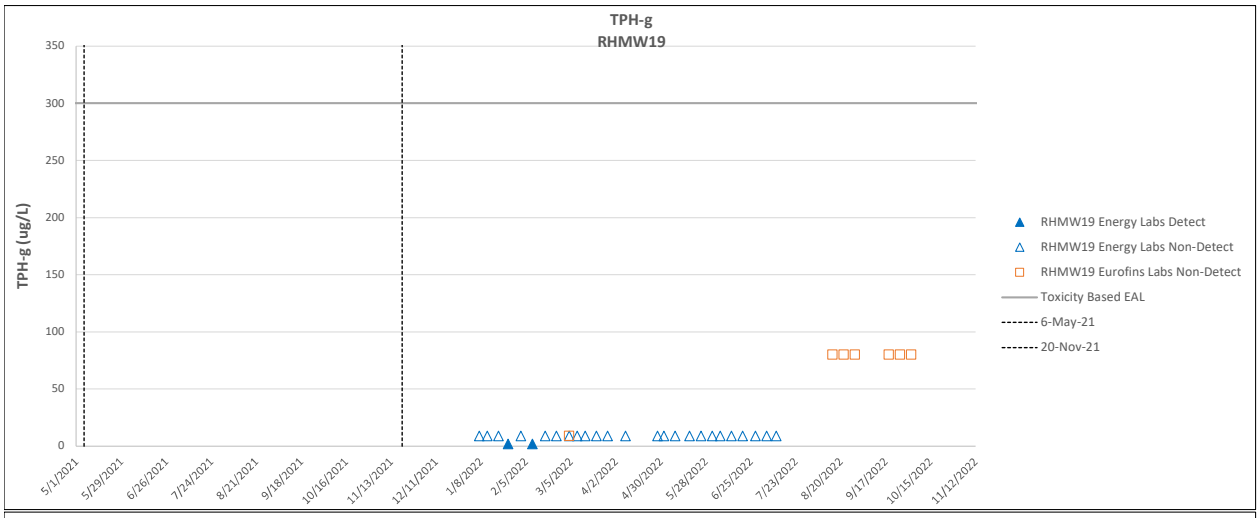
2022-05-28
2022-06-25
2022-07-23
2022-08-20
2022-09-17
2022-10-15
2022-11-12
RHMW17 Energy Labs Detect
RHMW17 Energy Labs Non-Detect
RHMW17 Eurofins Labs Detect
RHMW17 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-g (ug/L)
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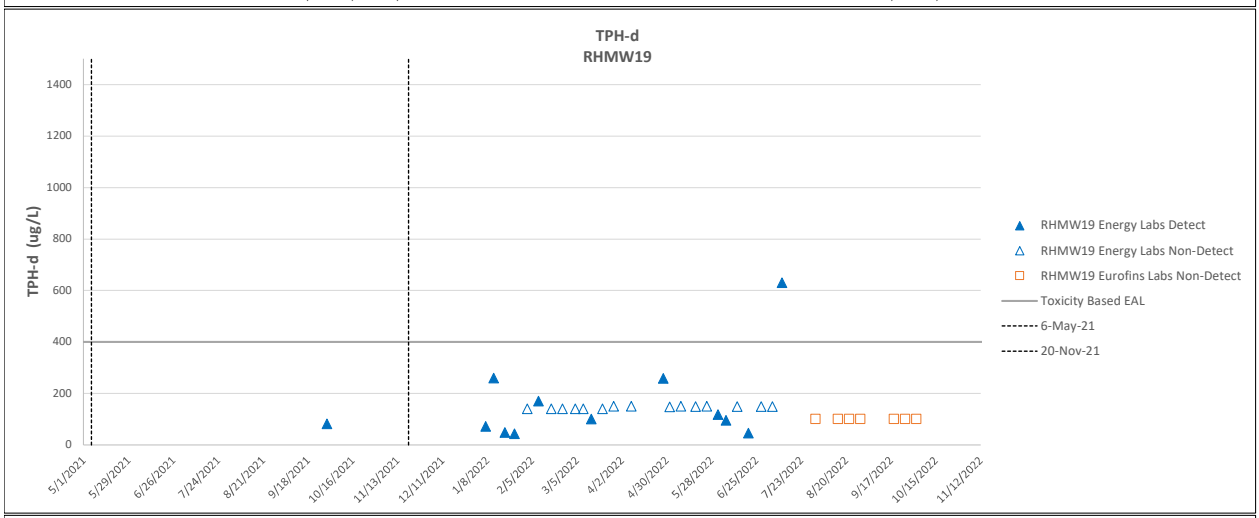
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
RHMW19 Energy Labs Detect
RHMW19 Energy Labs Non-Detect
RHMW19 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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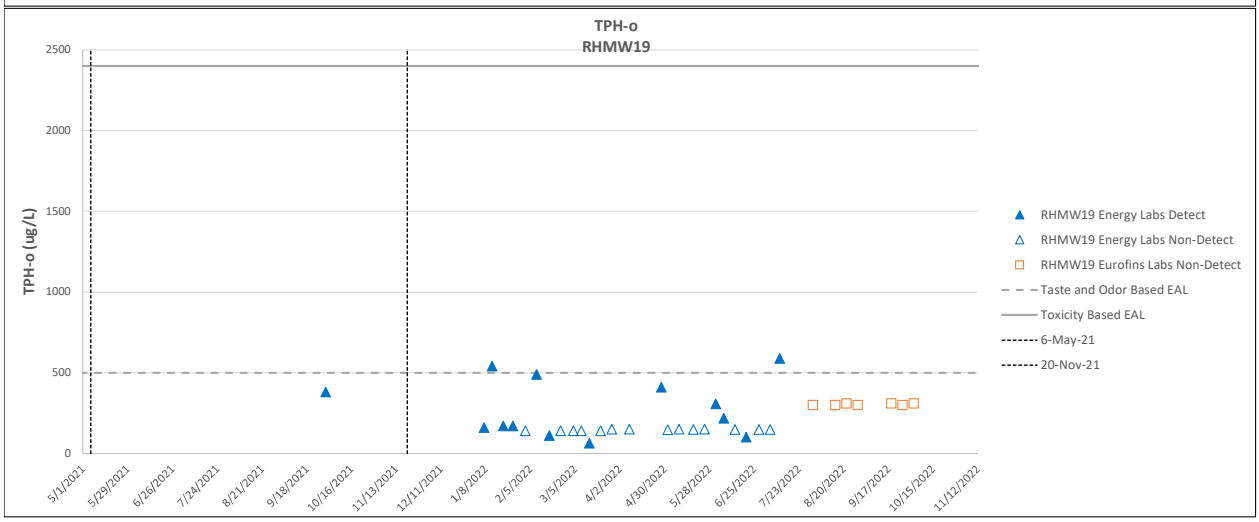
RHMW19 Energy Labs Detect
RHMW19 Energy Labs Non-Detect
RHMW19 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-o (ug/L)
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1000
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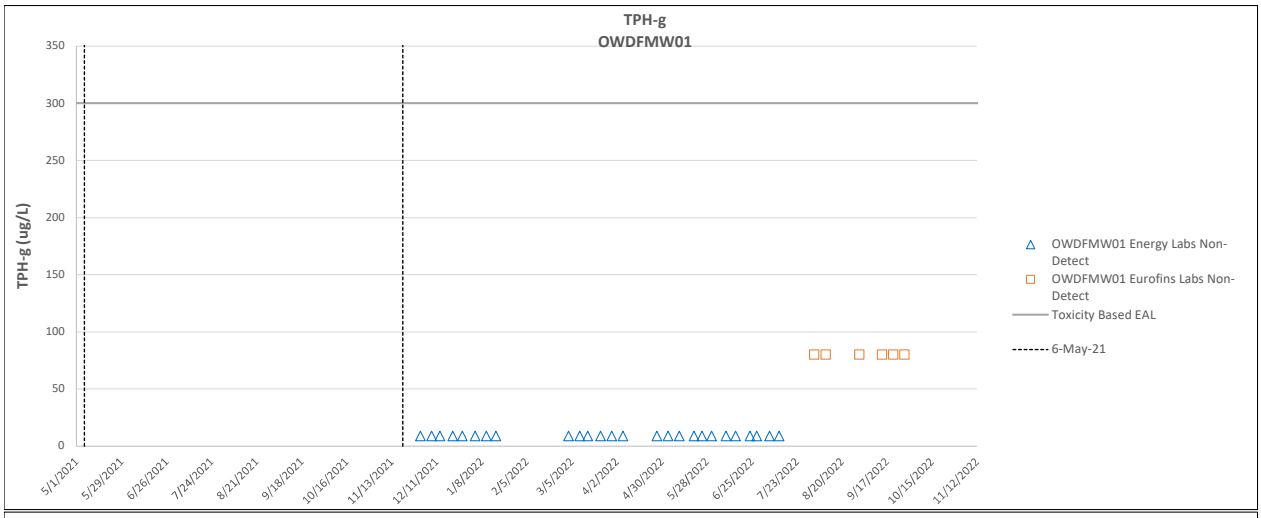
RHMW19 Energy Labs Detect
RHMW19 Energy Labs Non-Detect
RHMW19 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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0
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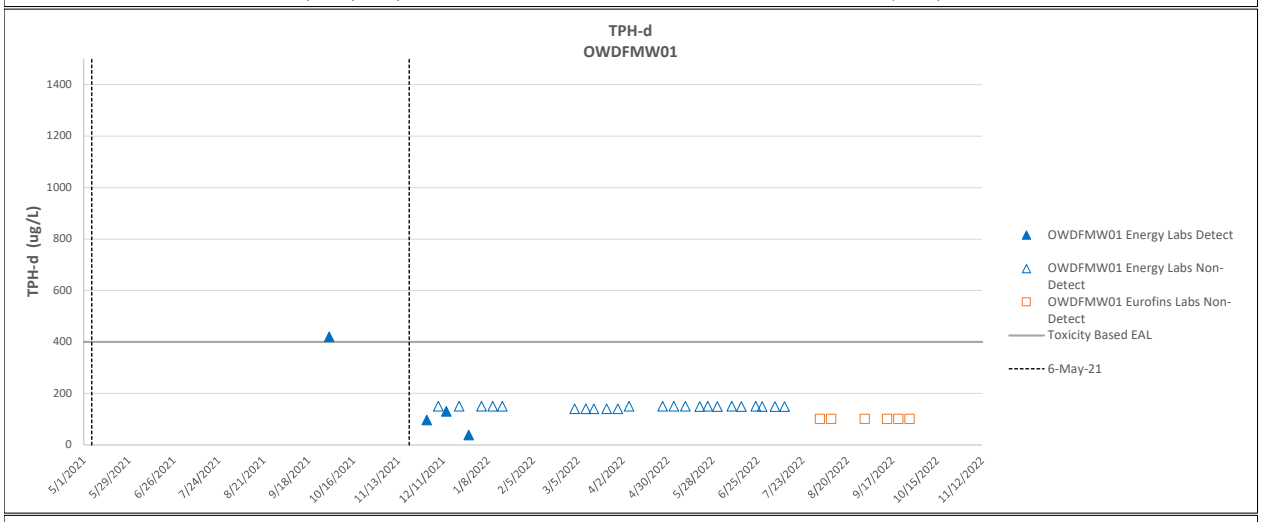
OWDFMW01 Energy Labs Non-Detect
OWDFMW01 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21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TPH-d (ug/L)
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200
0
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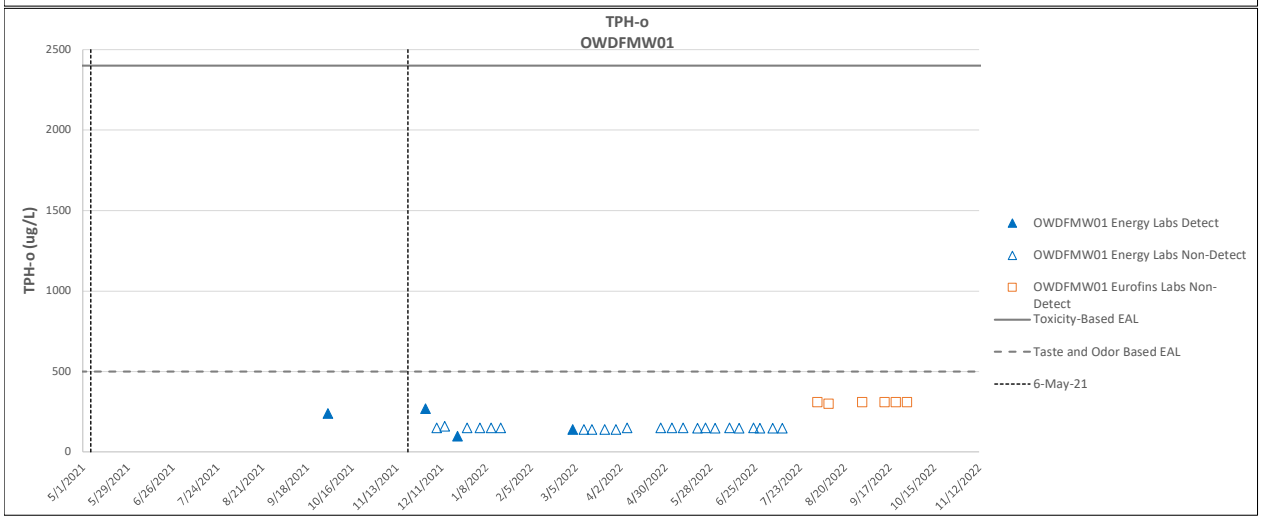
OWDFMW01 Energy Labs Detect
OWDFMW01 Energy Labs Non-Detect
OWDFMW01 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21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TPH-o (ug/L)
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500
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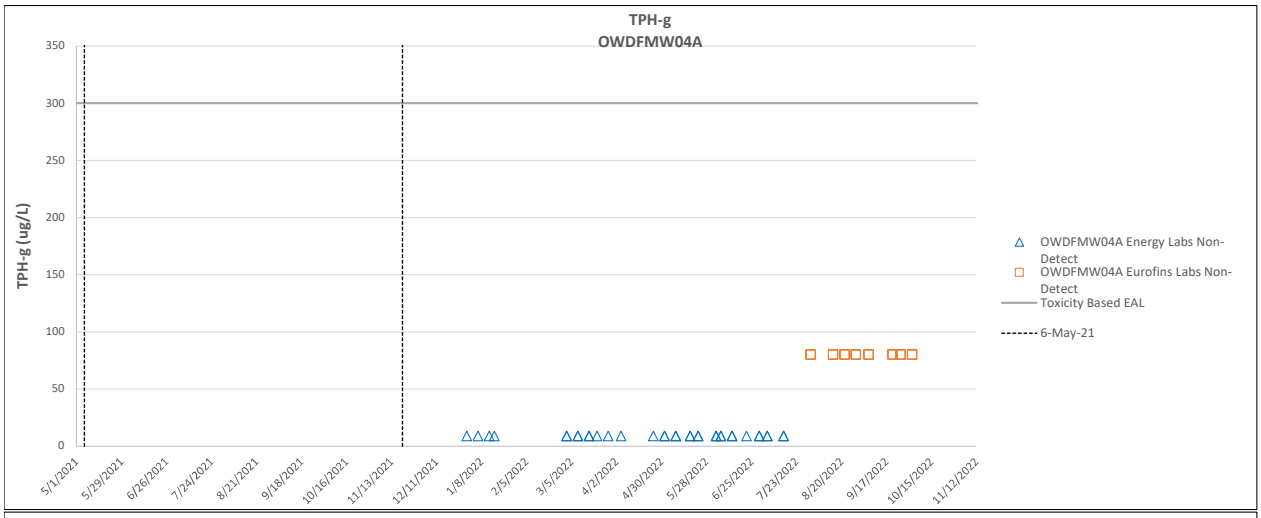
OWDFMW01 Energy Labs Detect
OWDFMW01 Energy Labs Non-Detect
OWDFMW01 Eurofins Labs Non-Detect
Toxicity-Based EAL
Taste and Odor Based EAL
6-May-21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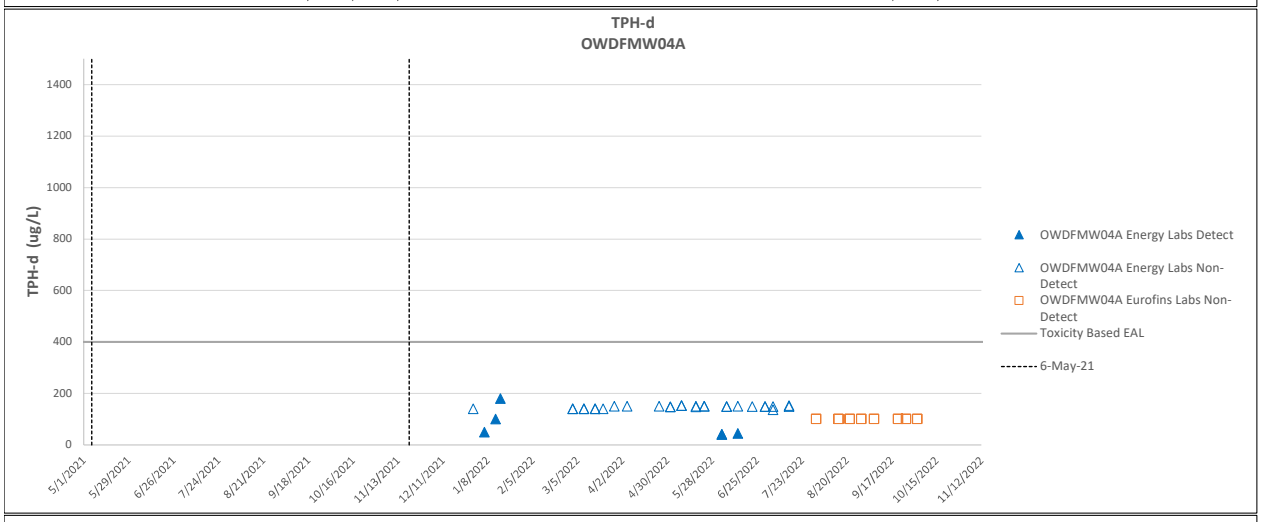
OWDFMW04A Energy Labs Non-Detect
OWDFMW04A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21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TPH-d (ug/L)
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8/20/2022
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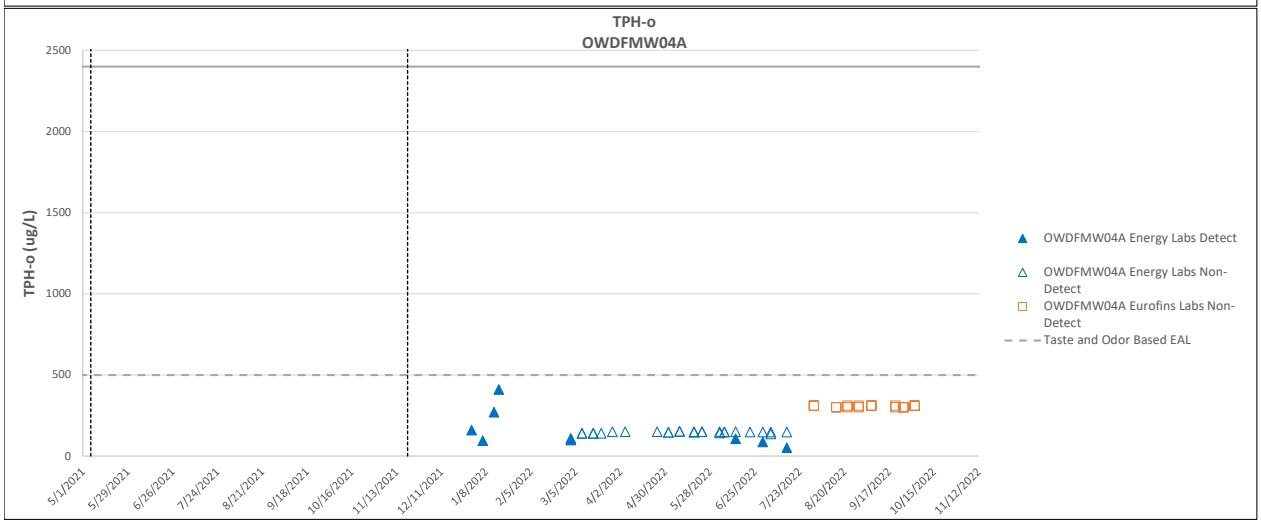
11/12/2022
OWDFMW04A Energy Labs Detect
OWDFMW04A Energy Labs Non-Detect
OWDFMW04A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21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TPH-o (ug/L)
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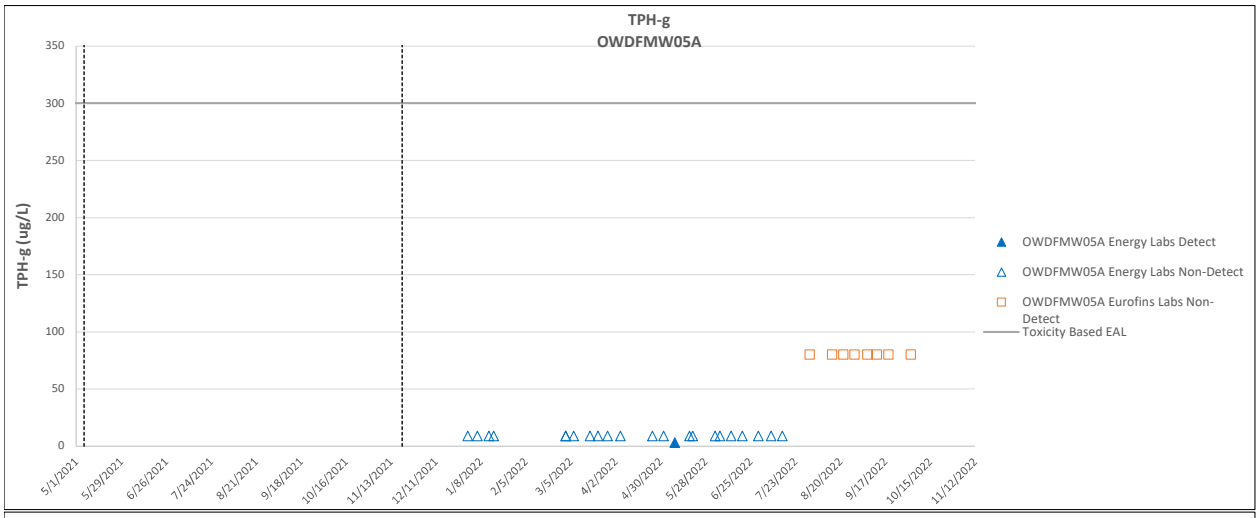
OWDFMW04A Energy Labs Detect
OWDFMW04A Energy Labs Non-Detect
OWDFMW04A Eurofins Labs Non-Detect
Taste and Odor Based EAL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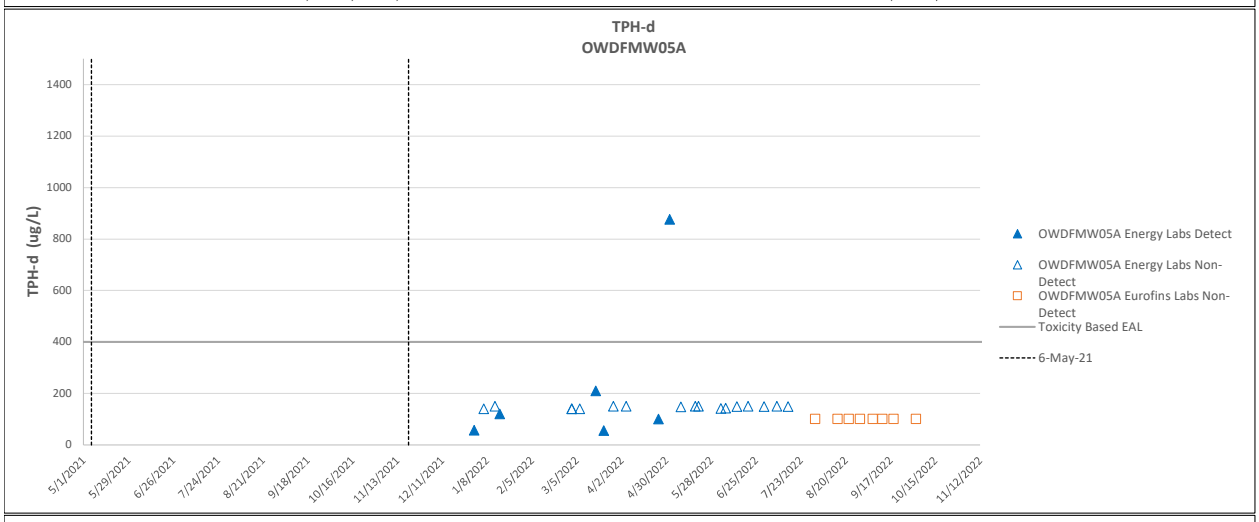
OWDFMW05A Energy Labs Detect
OWDFMW05A Energy Labs Non-Detect
OWDFMW05A Eurofins Labs Non-Detect
Toxicity Based EAL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TPH-d (ug/L)
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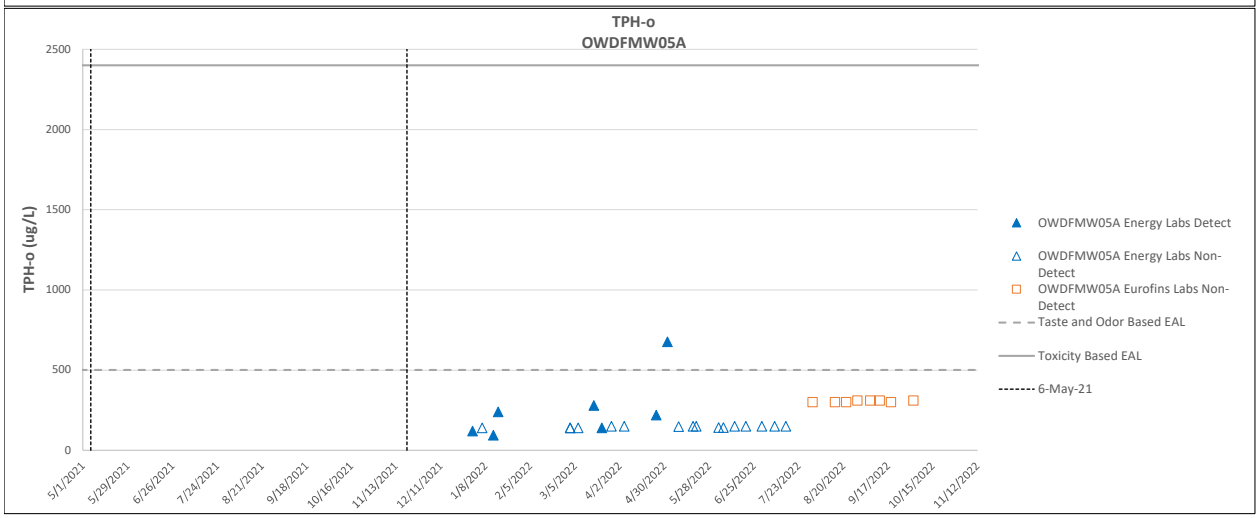
OWDFMW05A Energy Labs Detect
OWDFMW05A Energy Labs Non-Detect
OWDFMW05A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21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11/12/2022
OWDFMW05A Energy Labs Detect
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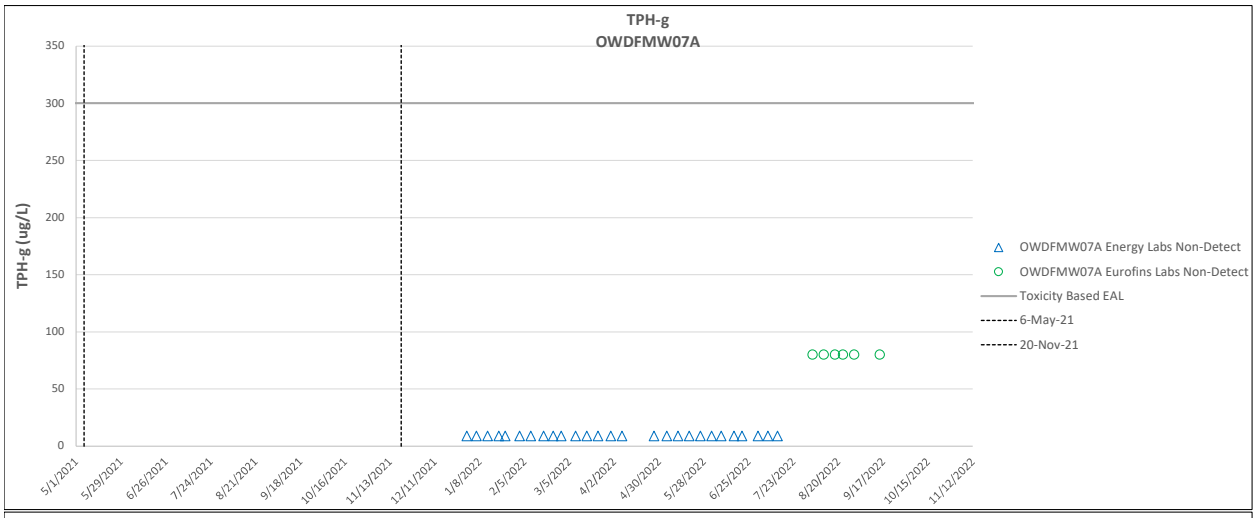
OWDFMW05A Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21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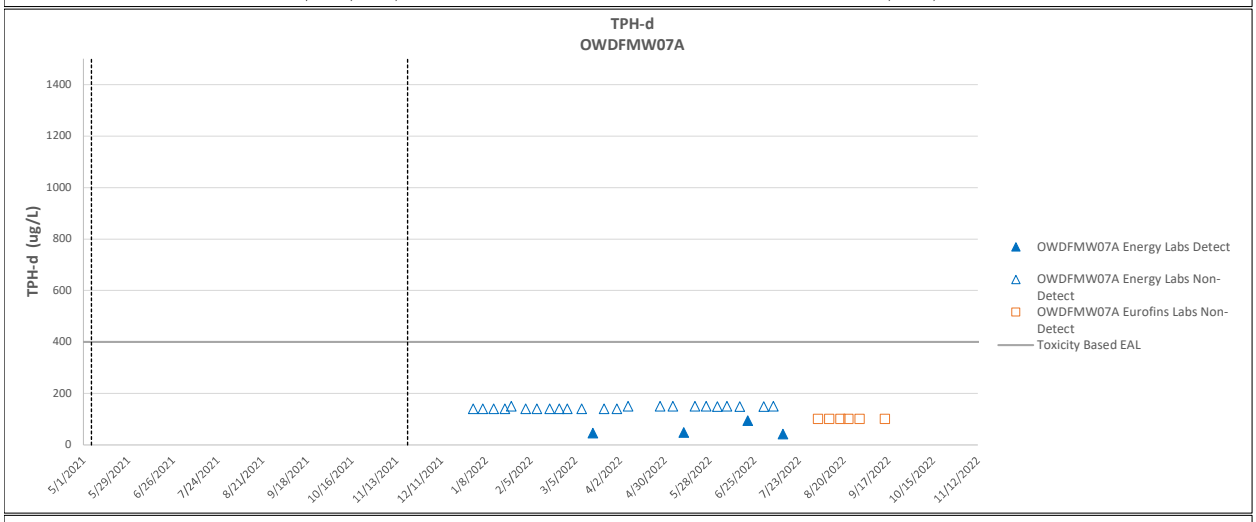
11/12/2022
OWDFMW07A Energy Labs Non-Detect
OWDFMW07A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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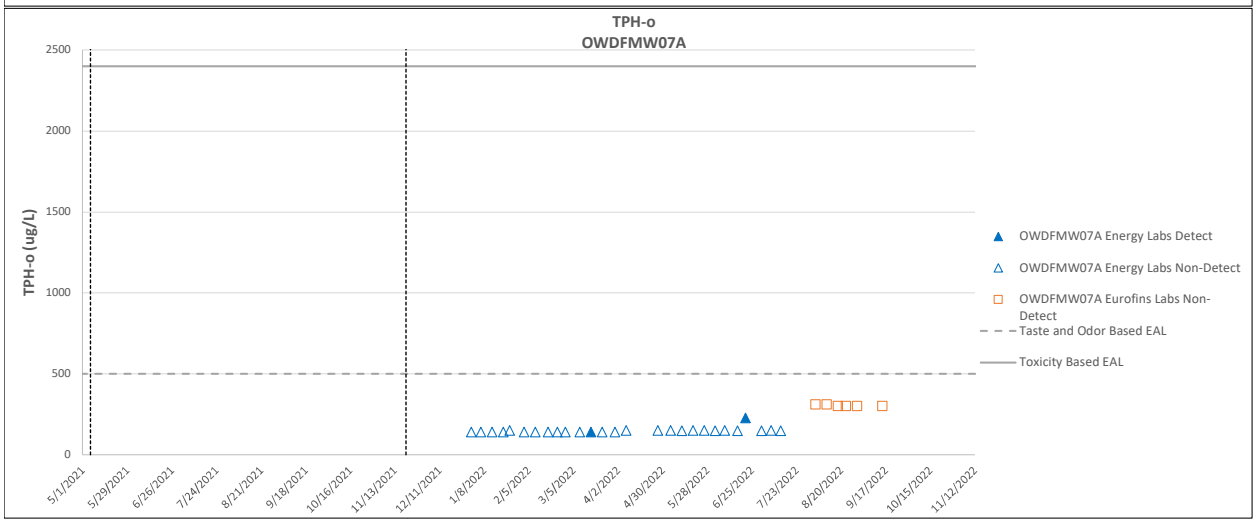
OWDFMW07A Energy Labs Detect
OWDFMW07A Energy Labs Non-Detect
OWDFMW07A Eurofins Labs Non-Detect
Toxicity Based EAL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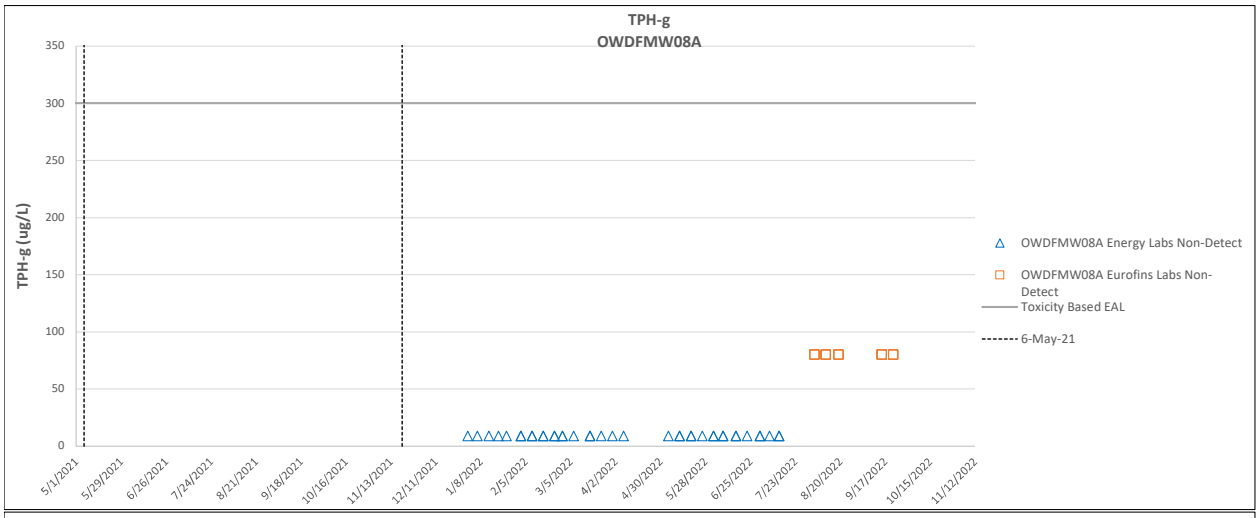
OWDFMW07A Energy Labs Detect
OWDFMW07A Energy Labs Non-Detect
OWDFMW07A Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL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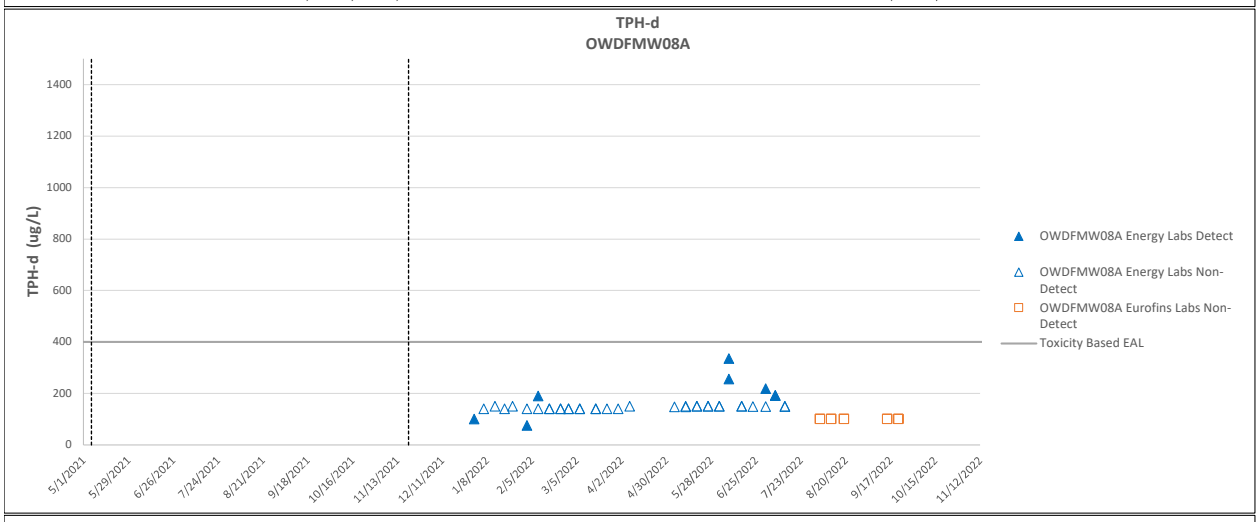
OWDFMW08A Energy Labs Non-Detect
OWDFMW08A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21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TPH-d (ug/L)
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200
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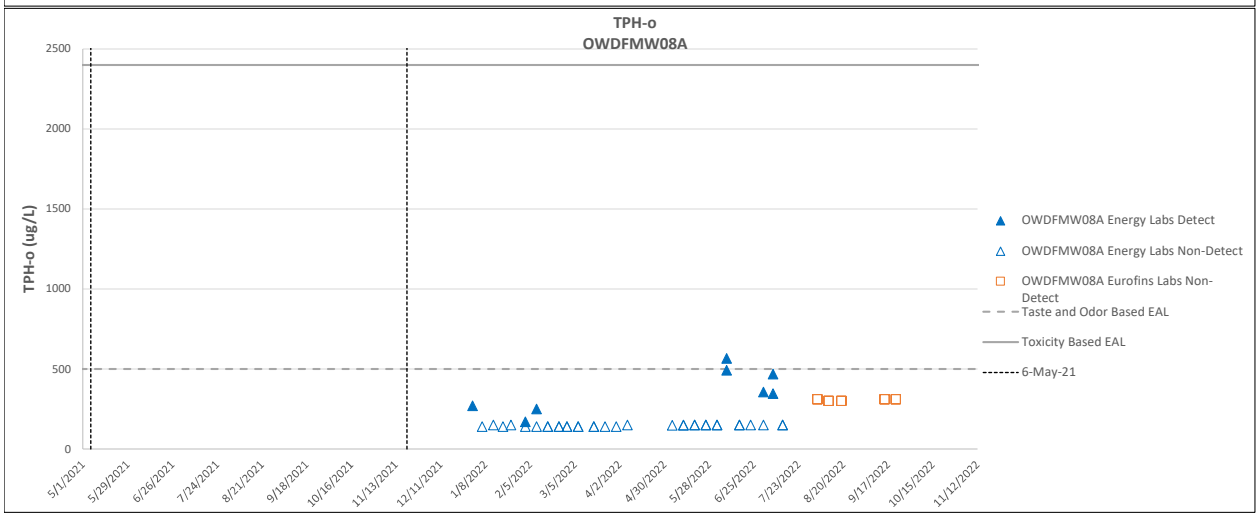
OWDFMW08A Energy Labs Detect
OWDFMW08A Energy Labs Non-Detect
OWDFMW08A Eurofins Labs Non-Detect
Toxicity Based EAL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TPH-o (ug/L)
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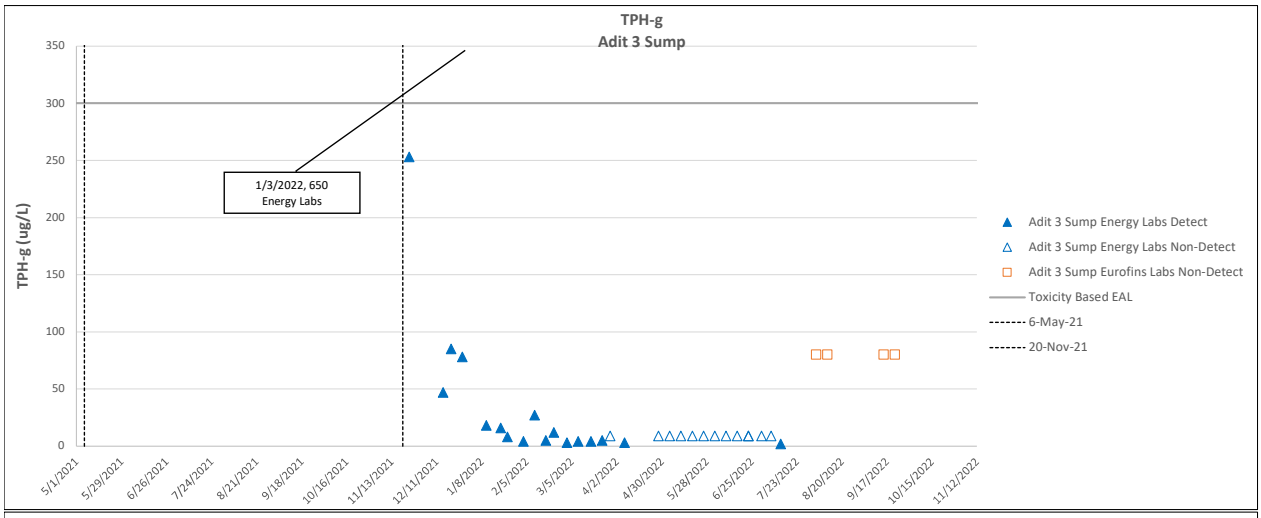
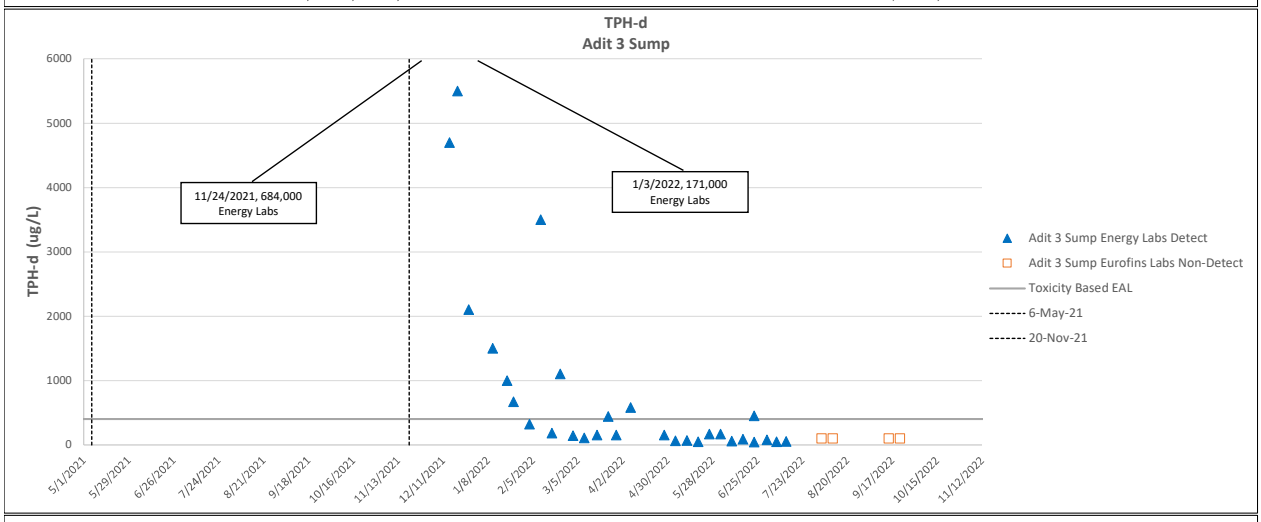
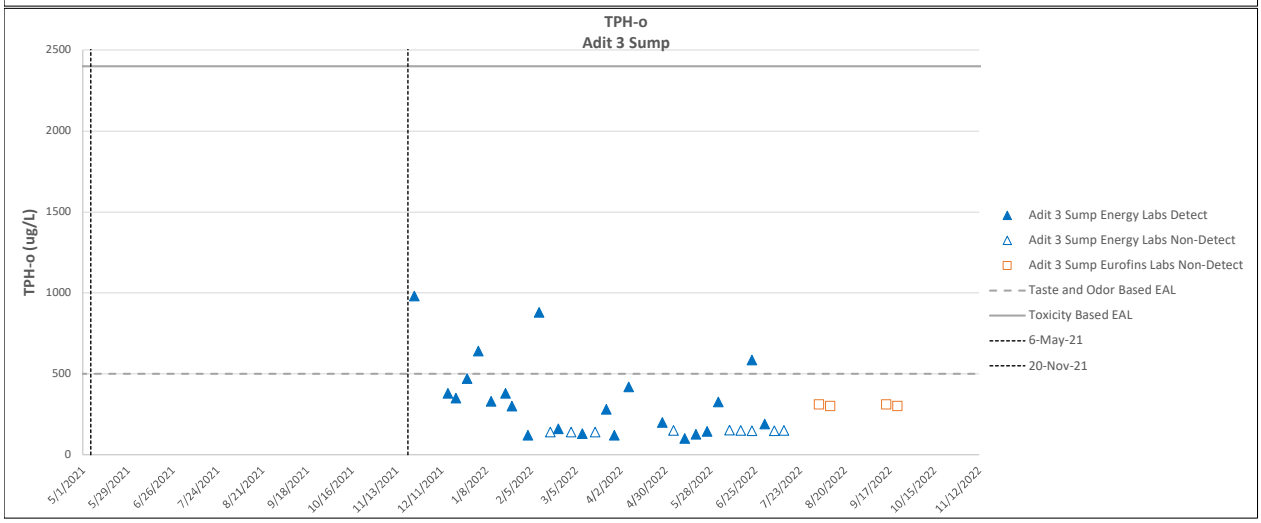
11/12/2022
OWDFMW08A Energy Labs Detect
OWDFMW08A Energy Labs Non-Detect
OWDFMW08A Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21







Notes:

[1] Sample collected on 12/20/2021 was reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

Appendix B.4.6 – Delineation Well Analytical Results

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Red Hill Bulk Fuel Storage Facility
Delineation Wells
Groundwater Sampling: All Wells

					Analyte	C6-C10 Gasoline Range Organics	C10-C24 Petroleum Hydrocarbons	C24-C40 Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Xylenes, Total	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Methane	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Alkalinity, Total (as CaCO3)	Chloride	Iron, Ferrous	Nitrate (as N)	Nitrate-Nitrite (as N)	Sulfate	Total Organic Carbon	
					CAS No.	PHCC6C10	PHCC10C24	PHCC24C40	71-43-2	100-41-4	--	95-47-6	108-88-3	1330-20-7	90-12-0	91-57-6	91-20-3	--	--	--	--	--	--	--	--	--	--	
					Method	8260/ CALUFT DOD	8015D	8015D	8260D	8260D	8260D	8260D	8260D	8260D	8270E SIM	8270E SIM	8270E SIM	RSK175	A2320B	A2320B	A2320B	EPA 300	A3500B	EPA 300	EPA 353.2	EPA 300	SW9060A	
					DOH Tier 1 EAL	300	400	500	5	30			40	20	10	10	17											
					Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
					Minimum	ND	91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.67	130000	ND	4	77000	25	660	700	38000	740	
					Maximum	ND	91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.81	190000	ND	190000	240000	97	1000	1100	87000	1300	
Location	Sampling Method	Laboratory	Field Sample ID	Sample Date	Sample Type																							SDG
RHP02	Low-Flow	EUT2	RHP02-WGN03LF-220608	06/08/2022	Primary	80.0 UJ	100 U	310 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0870 U	0.0870 U	0.430 U	-	**190000**	7000 U	**190000**	**78000** J-	-	**770** J-	-	**68000** J	-	5801147181
RHP02	Low-Flow	EUTQ	RHP02-WGN03LF-220608	06/08/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**49** J-	-	-	-	-	5801147181
RHP02	Low-Flow	LLL	RHP02-WGN03LF-220608	06/08/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	5.90 U	-	-	4	-	-	-	**690**	-	**980** J-	5801147181
RHP02	Low-Flow	EUT2	RHP02-WGFD03LF-220608	06/08/2022	Field Duplicate	80.0 UJ	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	**180000**	7000 U	**180000**	**78000** J	-	**770** J-	-	**68000** J	-	5801147181
RHP02	Low-Flow	EUTQ	RHP02-WGFD03LF-220608	06/08/2022	Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**54** J-	-	-	-	-	5801147181
RHP02	Low-Flow	LLL	RHP02-WGFD03LF-220608	06/08/2022	Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	5.90 U	-	-	-	-	-	-	**720**	-	**840** J-	5801147181
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2206WK3	06/20/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	**150000**	7000 U	**150000**	**82000** J	-	**980** J	-	**67000** J	-	5801150592LB1
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2206WK3	06/20/2022	Primary	80.0 U	110 U	320 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801150591
RHP01	Low-Flow	EUTQ	RHP01-WGN01LF-2206WK3	06/20/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.0 U	-	-	-	-	5801150592LB1
RHP01	Low-Flow	LLL	RHP01-WGN01LF-2206WK3	06/20/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	5.90 U	-	-	-	-	-	-	**840** J-	-	**1300** J+	5801150592LB1
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2206WK3	06/20/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	**160000**	7000 U	**160000**	**82000** J	-	**850** J	-	**87000** J	-	5801151132LB1
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2206WK3	06/20/2022	Primary	80.0 U	100 U	310 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-	5801151131
RHP02	Low-Flow	EUTQ	RHP02-WGN01LF-2206WK3	06/20/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.0 UJ	-	-	-	-	5801151132LB1
RHP02	Low-Flow	LLL	RHP02-WGN01LF-2206WK3	06/20/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	5.90 U	-	-	-	-	-	-	**810**	-	900 UJ	5801151132LB1
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2207WK1	07/06/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	**130000**	7000 U	**130000**	**77000** J-	-	**1000** J	-	**65000** J	-	5801157061LB1
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2207WK1	07/06/2022	Primary	80.0 U	110 U	320 U	0.500 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-	5801157091
RHP01	Low-Flow	EUTQ	RHP01-WGN01LF-2207WK1	07/06/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**68** J-	-	-	-	**760** J	5801157061LB1
RHP01	Low-Flow	LLL	RHP01-WGN01LF-2207WK1	07/06/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1100**	-	-	5801157061LB1
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2207WK1	07/06/2022	Primary	80.0 UJ	110 U	330 U	0.500 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.0890 U	0.0890 U	0.440 U	-	-	-	-	-	-	-	-	-	-	5801157091
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-220718	07/18/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0820 U	0.0820 U	0.410 U	-	-	-	-	-	-	-	-	-	-	5801160561
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-220718	07/18/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801160561
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2208WK1	08/01/2022	Primary	80.0 UJ	100 UJ	300 UJ	0.500 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.0810 UJ	0.0810 UJ	0.400 UJ	-	-	-	-	-	-	-	-	-	-	5801165131
RHP02	Bailer	EUT2	RHP02-WGN01B-2208WK1	08/04/2022	Primary	80.0 U	100 U	310 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801167791
RHP03	Low-Flow	EUT2	RHP03-WGN02LF-2208WK2	08/11/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	**180000**	7000 U	**180000**	**240000**	-	**670**	-	**47000**	**920** J	5801169212
RHP03	Low-Flow	EUT2	RHP03-WGN02LF-2208WK2	08/11/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801169211
RHP03	Low-Flow	EUTQ	RHP03-WGN02LF-2208WK2	08/11/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	**0.67** J	-	-	-	-	**97** J	-	**700**	-	-	5801169212
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2208WK2	08/12/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	**140000**	7000 U	**140000**	**170000**	-	**1000** J-	-	**38000**	**850** J	5801169271
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2208WK2	08/12/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801169272
RHP04A	Low-Flow	EUTQ	RHP04A-WGN01LF-2208WK2	08/12/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	1.30 U	-	-	-	-	**57** J	-	**1100**	-	-	5801169271
RHP04A	Low-Flow	EUT2	RHP04A-WGFD01LF-2208WK2	08/12/2022	Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	**140000**	7000 U	**140000**	**170000**	-	**990** J-	-	**38000**	**820** J	5801169271
RHP04A	Low-Flow	EUT2	RHP04A-WGFD01LF-2208WK2	08/12/2022	Field Duplicate	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801169272
RHP04A	Low-Flow	EUTQ	RHP04A-WGFD01LF-2208WK2	08/12/2022	Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	1.30 U	-	-	-	-	**85** J	-	**1100**	-	-	5801169271
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2208WK3	08/17/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 UJ	0.0800 UJ	0.400 UJ	-	-	-	-	-	-	-	-	-	-	5801170891
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2208WK3	08/19/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801171491
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2208WK4	08/25/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	**190000**	7000 U	**190000**	**230000**	-	**660**	-	**46000**	**740** J	5801173171
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2208WK4	08/25/2022	Primary	80.0 U	100 UJ	300 UJ	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-	5801173381
RHP03	Low-Flow	EUTQ	RHP03-WGN01LF-2208WK4	08/25/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	**0.81** J	-	-	-	-	**25** J	-	**710**	-	-	5801173171
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2208WK4	08/25/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	**140000**	7000 U	**140000** J	**170000**	-	**980**	-	**40000**	**1100** J+	5801173482
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2208WK4	08/25/2022	Primary	80.0 U	**91** J-	300 UJ	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801173481
RHP04A	Low-Flow	EUTQ	RHP04A-WGN01LF-2208WK4	08/25/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	1.30 U	-	-	-	-	**48** J	-	**920**	-	-	5801173482
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2208WK5	09/01/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801175731
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2208WK5	09/01/2022	Primary	80.0 UJ	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801175731
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2209WK1	09/08/2022	Primary	80.0 UJ	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801177501
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2209WK1	09/08/2022	Primary	80.0 UJ	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801177501
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2209WK2	09/15/2022	Primary	80.0 UJ	100 U	310 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-	5801180091
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2209WK2	09/15/2022	Primary	80.0 UJ	110 U	320 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801180091
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2209WK3	09/21/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801182111
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2209WK3	09/21/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801182111
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2210WK1	10/07/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-	5801186721
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2210WK1	10/07/2022	Primary	80.0 U	100 U	310 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0830 U	0.0830 U	0.420 U	-	-	-	-	-	-	-	-	-	-	5801186721
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2210WK2	10/14/2022	Primary	80.0 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801188611
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2210WK2	10/14/2022	Primary	80.0 U	100 U	310 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-	5801188621

Notes:
Detects are displayed in bold font.Analytical results exceeding the screening criteria are highlighted in blue.Project Screening Levels from: State of Hawaii, Department of Health Environmental Action Levels (EALs) >150m

FD	Field Duplicate
-	No data available
PAH	Polynuclear Aromatic Hydrocarbon
SGC	Silica Gel Cleanup
SVOC	Semivolatile Organic Compound
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound

Matrix
WG Ground Water

Units
µg/L Micrograms per Liter

Qualifier
J Estimated value, bias undetermined
J+ Estimated value, high biased
J- Estimated value, low biased
U The analyte was not detected and was reported as less than the limit of detection.
UJ The analyte was not detected and was reported as less than the limit of detection. However, the associated result is flagged as estimated based on quality control criteria concerns.
X Data recommended for exclusion based on quality control criteria concerns.
R Data excluded/rejected. See Data Validation Report for details.

Laboratory
EUT2 Eurofins Environment Testing TestAmerica, Tacoma, WA
EUTQ Eurofins Environment Testing TestAmerica, Arvada, CO
LLL Eurofins Lancaster Laboratories Environmental, LLC, Lancaster, PA

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Appendix B.4.7 – Single-Event Analytical Results at DH43 and BWS2253J1

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JBPHH Naval Facilities Engineering Systems Command
BWS Split Sample Event
Red Hill Bulk Fuel Storage Facility

Location:	BWS2253J1	BWS2253J1 (FD)	DH43
Field Sample ID:	BWS2253J1-WGN01LF-2210WK2	BWS2253J1-WGFD01LF-2210WK2	DH43-WGN01B-2210WK2
Matrix:	WG	WG	WG
Sample Date:	10/12/2022	10/12/2022	10/11/2022
BNASIME (UG/L)			
1-Methylnaphthalene	0.0300 U	0.0310 U	0.0310 U
2-Methylnaphthalene	0.0760 U	0.0770 U	0.0770 U
Acenaphthene	0.0300 U	0.0310 U	0.0310 U
Acenaphthylene	0.0300 U	0.0310 U	0.0310 U
Anthracene	0.0760 U	0.0770 U	0.0770 U
Benzo(a)anthracene	0.0300 U	0.0310 U	0.0310 U
Benzo(a)pyrene	0.0300 U	0.0310 U	0.0310 U
Benzo(b)fluoranthene	0.0300 U	0.0310 U	0.0310 U
Benzo(g,h,i)perylene	0.0300 U	0.0310 U	0.0310 U
Benzo(k)fluoranthene	0.0300 U	0.0310 U	0.0310 U
Chrysene	0.0300 U	0.0310 U	0.0310 U
Dibenz(a,h)anthracene	0.0300 U	0.0310 U	0.0310 U
Fluoranthene	0.0300 U	0.0310 U	0.0310 U
Fluorene	0.0300 U	0.0310 U	0.0310 U
Indeno(1,2,3-c,d)pyrene	0.0300 U	0.0310 U	0.0310 U
Naphthalene	0.0760 U	0.0770 U	0.0770 U
Phenanthrene	0.0760 U	0.0770 U	0.0770 U
Pyrene	0.0760 U	0.0770 U	0.0770 U
Dissolved Metals (UG/L)			
Lead	**0.110 J**	-	**4.60**
RSK175 (UG/L)			
Methane	1.30 U	-	**0.650 J**
SW6020B (UG/L)			
Lead	**0.0890 J**	-	**53.0**
SW8011 (UG/L)			
1,2-Dibromoethane (EDB)	0.00570 U	-	0.00570 UJ
SW8015D (UG/L)			
C10-C24 Petroleum Hydrocarbons	100 U	100 U	100 U
C24-C40 Petroleum Hydrocarbons	300 U	300 U	310 U
SW8260 (UG/L)			
C6-C10 Gasoline Range Organics	80.0 U	80.0 U	80.0 U
SW8260D (UG/L)			
1,1,1,2-Tetrachloroethane	0.150 U	0.150 U	0.150 U
1,1,1-Trichloroethane	0.0700 U	0.0700 U	0.0700 U
1,1,2,2-Tetrachloroethane	0.150 U	0.150 U	0.150 U
1,1,2-Trichloroethane	0.150 U	0.150 U	0.150 U
1,1-Dichloroethane	0.0700 U	0.0700 U	0.0700 U
1,1-Dichloroethene	0.0700 U	0.0700 U	0.0700 U
1,1-Dichloropropene	0.150 U	0.150 U	0.150 U
1,2,3-Trichloropropane	0.150 U	0.150 U	0.150 U

JBPHH Naval Facilities Engineering Systems Command
BWS Split Sample Event
Red Hill Bulk Fuel Storage Facility

Location:	BWS2253J1	BWS2253J1 (FD)	DH43
Field Sample ID:	BWS2253J1-WGN01LF-2210WK2	BWS2253J1-WGFD01LF-2210WK2	DH43-WGN01B-2210WK2
Matrix:	WG	WG	WG
Sample Date:	10/12/2022	10/12/2022	10/11/2022
1,2-Dichlorobenzene	0.150 U	0.150 U	0.150 U
1,2-Dichloroethane	0.150 U	0.150 U	0.150 U
1,2-Dichloropropane	0.150 U	0.150 U	0.150 U
1,3-Dichlorobenzene	0.150 U	0.150 U	0.150 U
1,3-Dichloropropane	0.0700 U	0.0700 U	0.0700 U
1,4-Dichlorobenzene	0.150 U	0.150 U	0.150 U
2,2-Dichloropropane	0.150 U	0.150 U	0.150 U
2-Butanone (MEK)	5.00 U	5.00 U	5.00 U
2-Chlorotoluene	0.350 U	0.350 U	0.350 U
4-Chlorotoluene	0.250 U	0.250 U	0.250 U
Benzene	0.0700 U	0.0700 U	0.0700 U
Bromobenzene	0.150 U	0.150 U	0.150 U
Bromochloromethane	0.150 U	0.150 U	0.150 U
Bromodichloromethane	0.150 U	0.150 U	0.150 U
Bromoform	0.350 U	0.350 U	0.350 U
Carbon Tetrachloride	0.0700 U	0.0700 U	0.0700 U
Chlorobenzene	0.150 U	0.150 U	0.150 U
Chloroethane	0.250 U	0.250 U	0.250 U
Chloroform	0.0700 U	0.0700 U	0.0700 U
Chloromethane	0.350 U	0.350 U	0.350 U
cis-1,2-Dichloroethene	0.150 U	0.150 U	0.150 U
cis-1,3-Dichloropropene	0.150 U	0.150 U	0.150 U
Dibromochloromethane	0.150 U	0.150 U	0.150 U
Dibromomethane	0.150 U	0.150 U	0.150 U
Dichlorodifluoromethane	0.350 UJ	0.350 UJ	0.350 UJ
Ethylbenzene	0.0700 U	0.0700 U	0.0700 U
m,p-Xylene	0.250 U	0.250 U	0.250 U
Methyl tert-butyl ether (MTBE)	0.250 U	0.250 U	0.250 U
Methylene chloride	3.50 U	3.50 U	3.50 U
o-Xylene	0.350 U	0.350 U	0.350 U
Styrene	0.500 U	0.500 U	0.500 U
Tetrachloroethene (PCE)	0.250 U	0.250 U	0.250 U
Toluene	0.150 U	0.150 U	0.150 U
trans-1,2-Dichloroethene	0.0700 U	0.0700 U	0.0700 U
trans-1,3-Dichloropropene	0.150 U	0.150 U	0.150 U
Trichloroethene (TCE)	0.150 U	0.150 U	0.150 U
Trichlorofluoromethane	0.350 U	0.350 U	0.350 U
Vinyl chloride	0.0150 U	0.0150 U	0.0150 U
Xylenes, Total	0.350 U	0.350 U	0.350 U
SW8270E (UG/L)			
1,2,4-Trichlorobenzene	0.280 U	0.290 U	0.290 U

JBPHH Naval Facilities Engineering Systems Command
BWS Split Sample Event
Red Hill Bulk Fuel Storage Facility

Location:	BWS2253J1	BWS2253J1 (FD)	DH43
Field Sample ID:	BWS2253J1-WGN01LF-2210WK2	BWS2253J1-WGFD01LF-2210WK2	DH43-WGN01B-2210WK2
Matrix:	WG	WG	WG
Sample Date:	10/12/2022	10/12/2022	10/11/2022
1,2-Dichlorobenzene	0.140 U	0.140 U	0.140 U
1,3-Dichlorobenzene	0.0850 U	0.0870 U	0.0860 UJ
1,4-Dichlorobenzene	0.0850 U	0.0870 U	0.0860 U
2,2'-Oxybis(1-chloropropane)	0.140 UJ	0.140 UJ	0.140 U
2,4,5-Trichlorophenol	0.280 U	0.290 U	0.290 U
2,4,6-Trichlorophenol	0.280 U	0.290 U	0.290 U
2,4-Dichlorophenol	0.470 U	0.480 U	0.480 U
2,4-Dimethylphenol	0.470 U	0.480 U	0.480 U
2,4-Dinitrophenol	1.10 U	1.20 U	1.20 U
2,4-Dinitrotoluene	0.280 U	0.290 U	0.290 U
2,6-Dinitrotoluene	0.280 U	0.290 U	0.290 U
2-Chloronaphthalene	0.140 U	0.140 U	0.140 U
2-Chlorophenol	0.140 U	0.140 U	0.140 U
2-Methylphenol (o-Cresol)	0.140 U	0.140 U	0.140 U
2-Nitrophenol	0.140 U	0.140 U	0.140 U
3,3'-Dichlorobenzidine	0.280 U	0.290 U	0.290 U
4,6-Dinitro-2-methylphenol	1.10 U	1.20 U	1.20 U
4-Bromophenyl phenyl ether	0.140 U	0.140 U	0.140 U
4-Chloro-3-methylphenol	0.280 U	0.290 U	0.290 U
4-Chlorophenyl phenyl ether	0.140 U	0.140 U	0.140 U
4-Nitrophenol	-	-	5.80 U
Azobenzene	0.140 U	0.140 U	0.140 U
Benzyl butyl phthalate	0.570 U	0.580 U	0.580 U
Bis(2-chloroethoxy)methane	0.140 U	0.140 U	0.140 U
Bis(2-chloroethyl) ether (2-Chloroethyl ether)	0.0850 U	0.0870 U	0.0860 U
Bis(2-ethylhexyl)phthalate	1.50 UJ	1.50 UJ	1.50 U
Cresols, m- & p-	0.280 U	0.290 U	0.290 U
Diethyl phthalate	0.280 U	0.290 U	0.290 U
Dimethyl phthalate	0.140 U	0.140 U	0.140 U
di-n-Butyl phthalate	7.60 U	7.70 U	7.70 U
di-n-Octyl phthalate	0.280 U	0.290 U	0.290 U
Hexachlorobenzene	0.280 U	0.290 U	0.290 U
Hexachlorobutadiene	0.140 U	0.140 U	0.140 UJ
Hexachlorocyclopentadiene	0.280 U	0.290 U	0.290 UJ
Hexachloroethane	0.140 U	0.140 U	0.140 UJ
Isophorone	0.280 U	0.290 U	0.290 U
Nitrobenzene	0.0850 U	0.0870 U	0.0860 U
N-Nitrosodimethylamine (NDMA)	-	-	0.290 U
N-Nitrosodi-n-propylamine	0.0850 U	0.0870 U	0.0860 U
N-Nitrosodiphenylamine	0.140 U	0.140 U	0.140 U

JBPHH Naval Facilities Engineering Systems Command
BWS Split Sample Event
Red Hill Bulk Fuel Storage Facility

Location:	BWS2253J1	BWS2253J1 (FD)	DH43
Field Sample ID:	BWS2253J1-WGN01LF-2210WK2	BWS2253J1-WGFD01LF-2210WK2	DH43-WGN01B-2210WK2
Matrix:	WG	WG	WG
Sample Date:	10/12/2022	10/12/2022	10/11/2022
Pentachlorophenol	0.950 U	0.960 U	0.960 U
Phenol	0.570 U	0.580 U	0.580 U
Pyridine	3.00 U	3.10 U	3.10 U
SW9060A (UG/L)			
Total Organic Carbon	1000 U	-	**390 J**

Data Qualifier Definitions

U	The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.
UJ	The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.
J	Estimated: The analyte was positively identified, the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

Appendix B.5 – Groundwater Monitoring Chromatograms through November 4, 2022

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Location: RHMW2254-01 Sample ID: RHMW2254-01-WGN01B-2208WK2 Sample Date: 08/11/2022
Lab: Eurofins Seattle

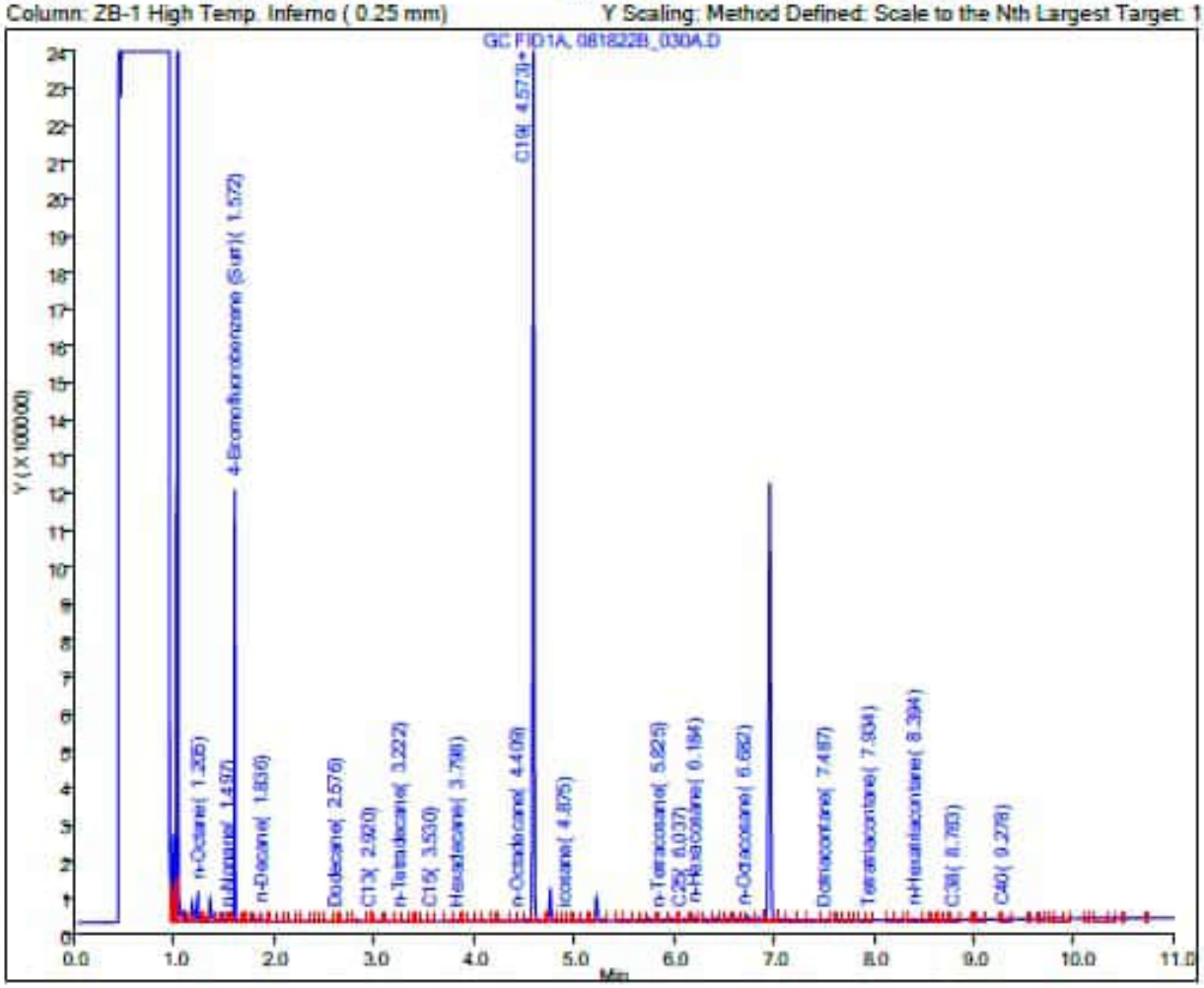
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 19-Aug-2022 13:46:24 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220818-84373.b\081822B_030A.D				
Injection Date:	19-Aug-2022 01:13:30	Instrument ID:	TAC020		
Lims ID:	580-116924-Q-1-A	Lab Sample ID:	580-116924-1		
Client ID:	RHMW2254-01-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	28	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW2254-01 Sample ID: RHMW2254-01-WGN01LF-2208WK2 Sample Date: 08/11/2022
Lab: Eurofins Seattle

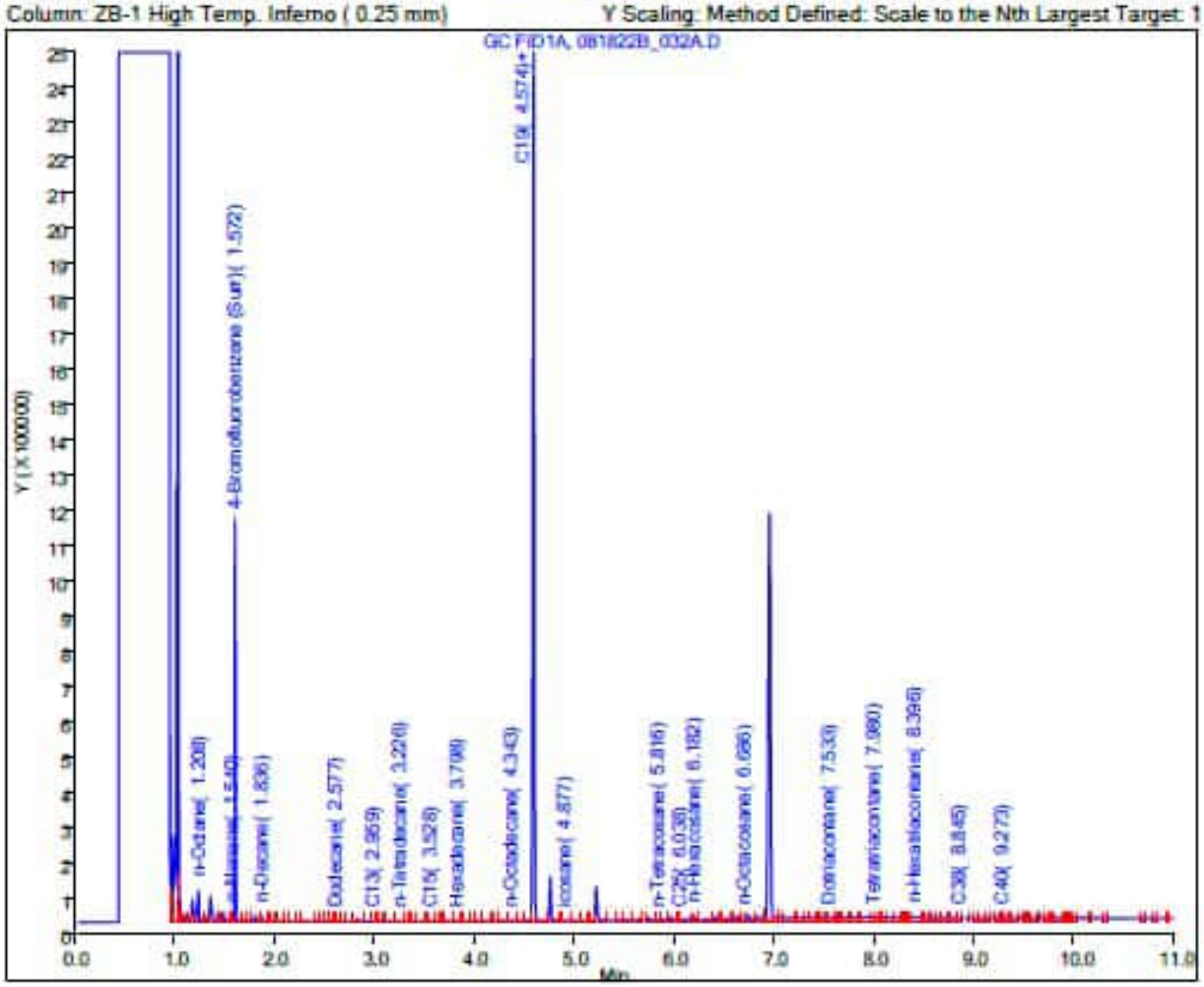
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 19-Aug-2022 13:46:33 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220818-84373 b\081822B_032A.D				
Injection Date:	19-Aug-2022 01:53:30	Instrument ID:	TAC020		
Lims ID:	580-116924-Q-8-A	Lab Sample ID:	580-116924-8		
Client ID:	RHMW2254-01-WGN01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	30	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW2254-01 Sample ID: RHMW2254-01-WGN01B-2208WK3 Sample Date: 08/18/2022
Lab: Eurofins Seattle

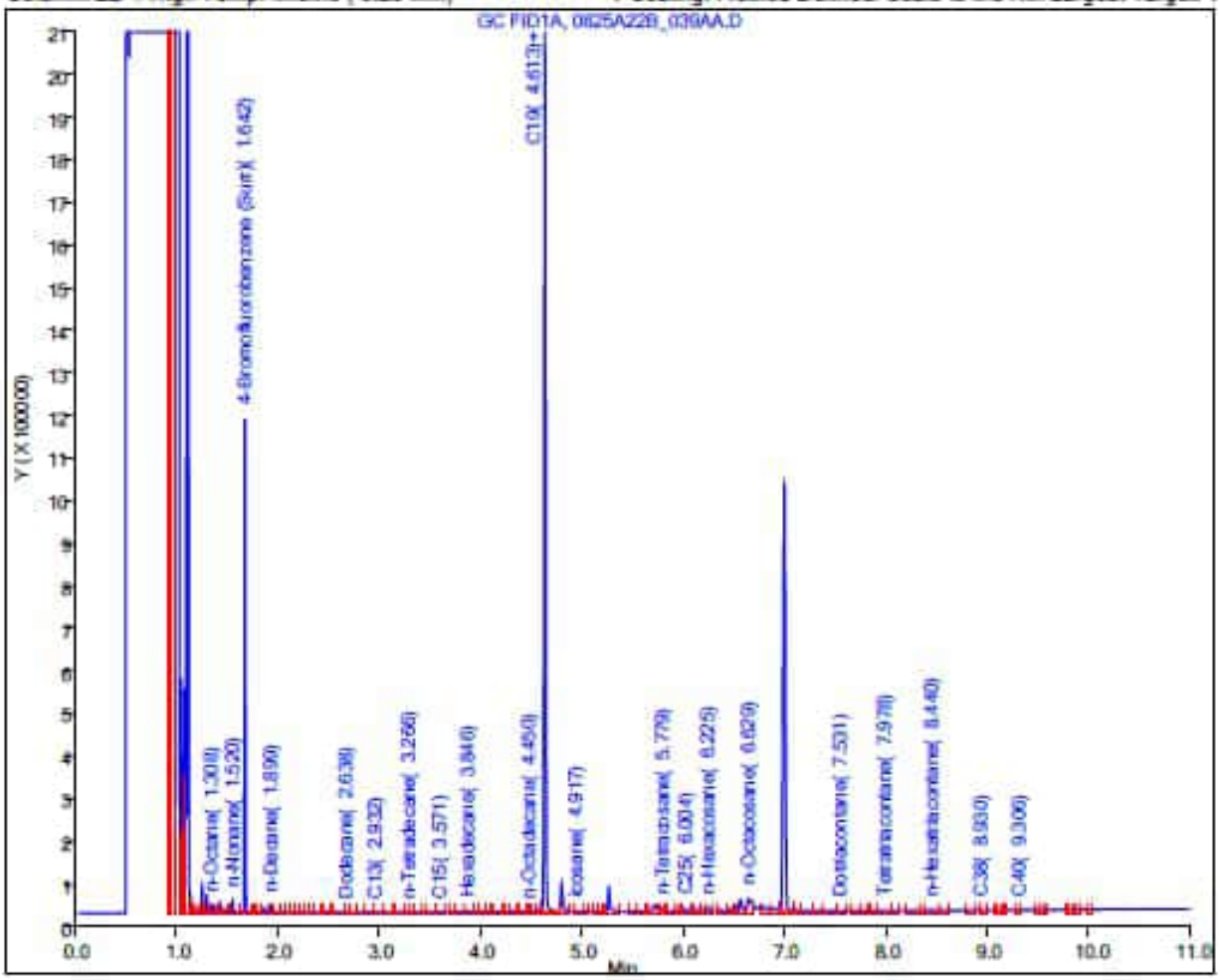
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 28-Aug-2022 22:42:53 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84521.b\0825A22B_039AA.D				
Injection Date:	26-Aug-2022 12:44:30	Instrument ID:	TAC020		
Lims ID:	580-117150-Q-9-C	Lab Sample ID:	580-117150-9		
Client ID:	RHMW2254-01-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	38	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW2254-01 Sample ID: RHMW2254-01-WGN01B-2208WK5 Sample Date: 09/01/2022
Lab: Eurofins Seattle

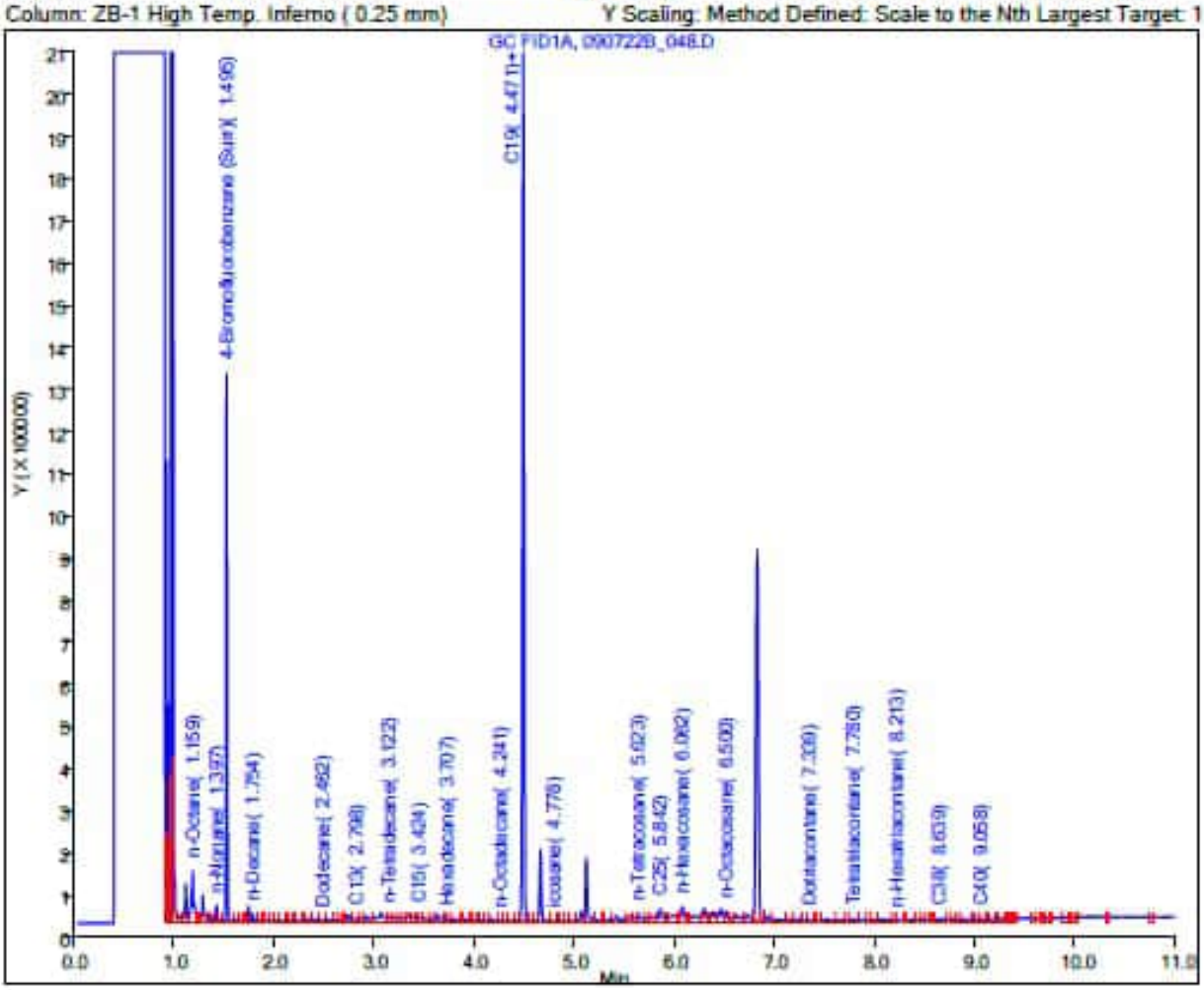
Results (ug/L): TPH-d (C10 to C24) <110 U TPH-o (C24 to C40) <320 U

Report Date: 08-Sep-2022 15:59:55 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220907-84710.b\090722B_048.D				
Injection Date:	08-Sep-2022 15:26:30	Instrument ID:	TAC020		
Lims ID:	580-117596-C-1-C	Lab Sample ID:	580-117596-1		
Client ID:	RHMW2254-01-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	47	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW2254-01 Sample ID: RHMW2254-01-WGN01LF-2208WK5 Sample Date: 09/01/2022
Lab: Eurofins Seattle

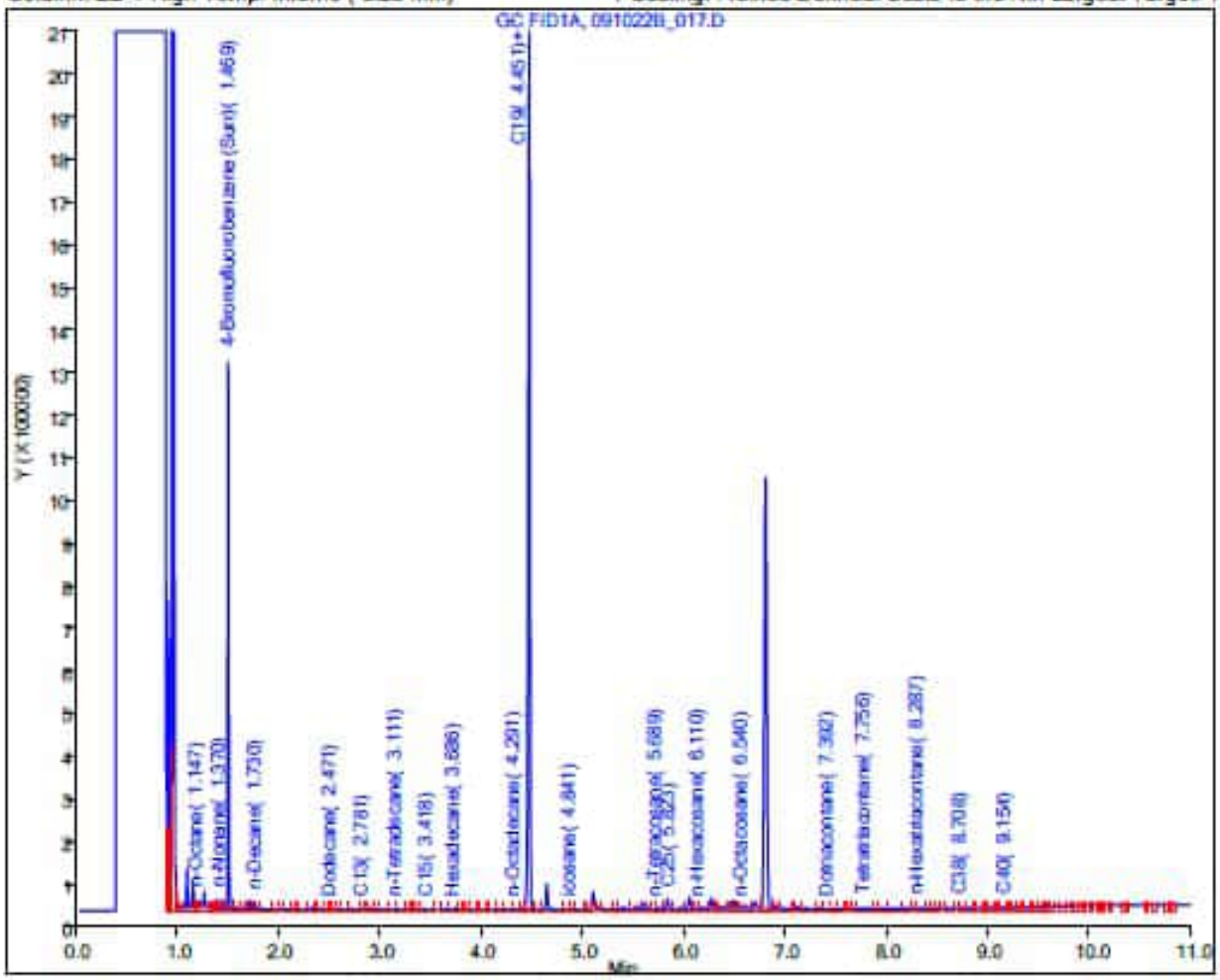
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 12-Sep-2022 13:12:37 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220909-84751.b\091022B_017.D				
Injection Date:	10-Sep-2022 03:29:30	Instrument ID:	TAC020		
Lims ID:	580-117596-D-12-A	Lab Sample ID:	580-117596-12		
Client ID:	RHMW2254-01-WGN01LF-2208WK5				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW2254-01 Sample ID: RHMW2254-01-WGN01B-2209WK2 Sample Date: 09/15/2022
Lab: Eurofins Seattle

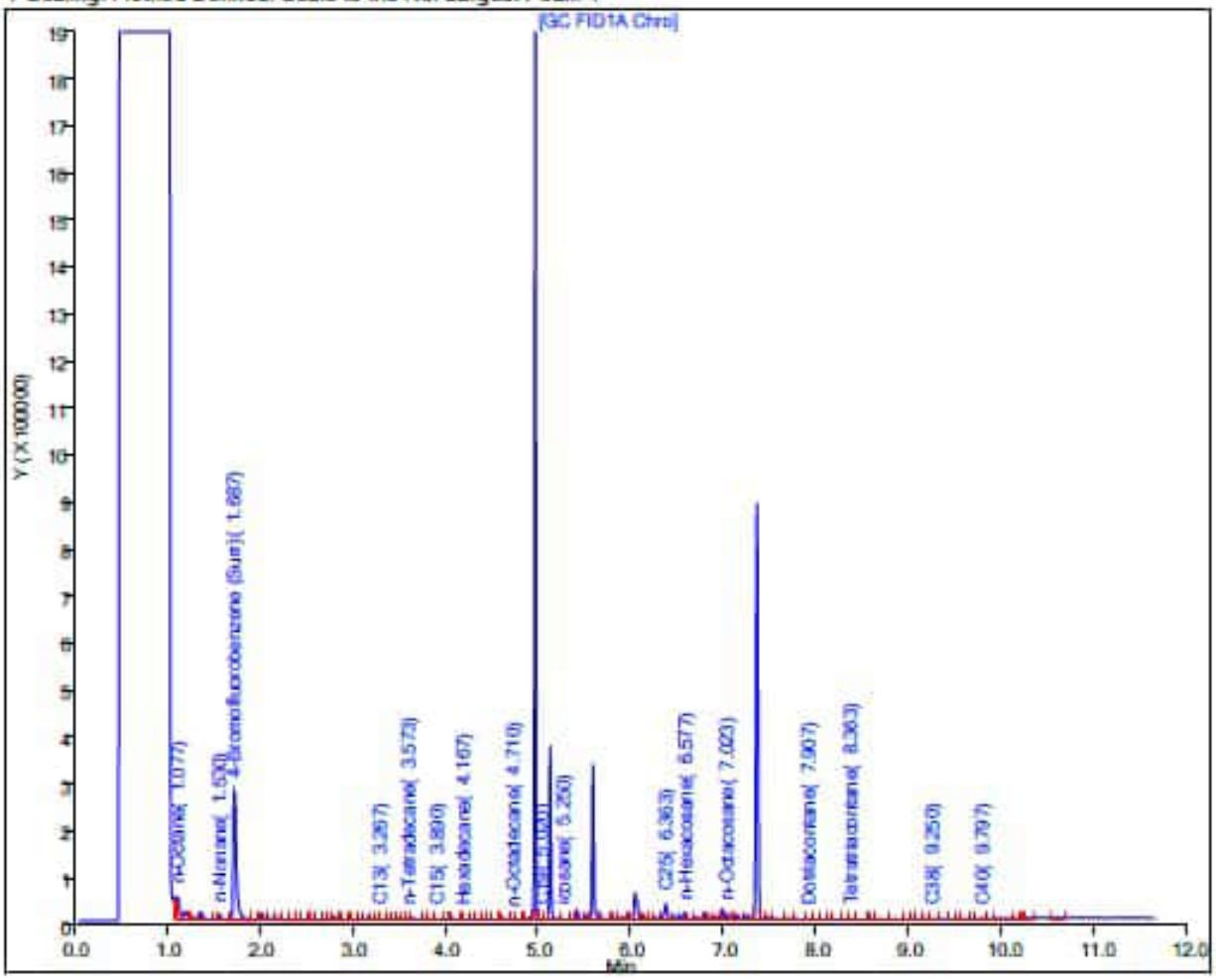
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 22-Sep-2022 20:48:59 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220921-84938.b\092122A050.D				
Injection Date:	21-Sep-2022 21:54:18	Instrument ID:	TAC129		
Lims ID:	580-117960-F-11-A	Lab Sample ID:	580-117960-11		
Client ID:	RHMW2254-01-WGN01B-2209WK2				
Operator ID:	ADB	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW2254-01 Sample ID: RHMW2254-01-WGN01LF-2209WK2 Sample Date: 09/15/2022
Lab: Eurofins Seattle

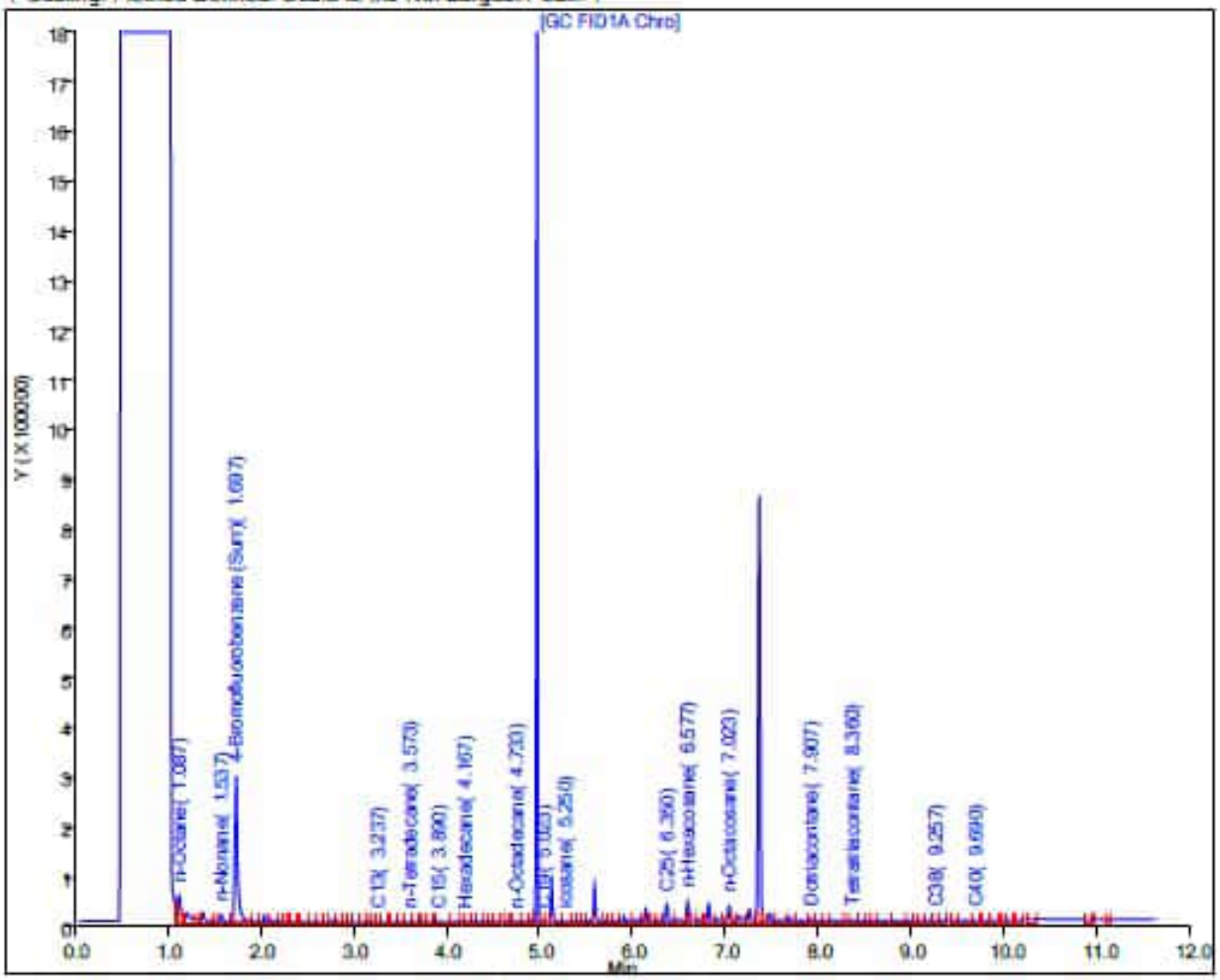
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 22-Sep-2022 20:48:56 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220921-84938.b\092122A048.D				
Injection Date:	21-Sep-2022 21:35:13	Instrument ID:	TAC129		
Lims ID:	580-117960-E-9-A	Lab Sample ID:	580-117960-9		
Client ID:	RHMW2254-01-WGN01LF-2209WK2				
Operator ID:	ADB	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW2254-01 Sample ID: RHMW2254-01-WGN01B-2209WK3 Sample Date: 09/22/2022
Lab: Eurofins Seattle

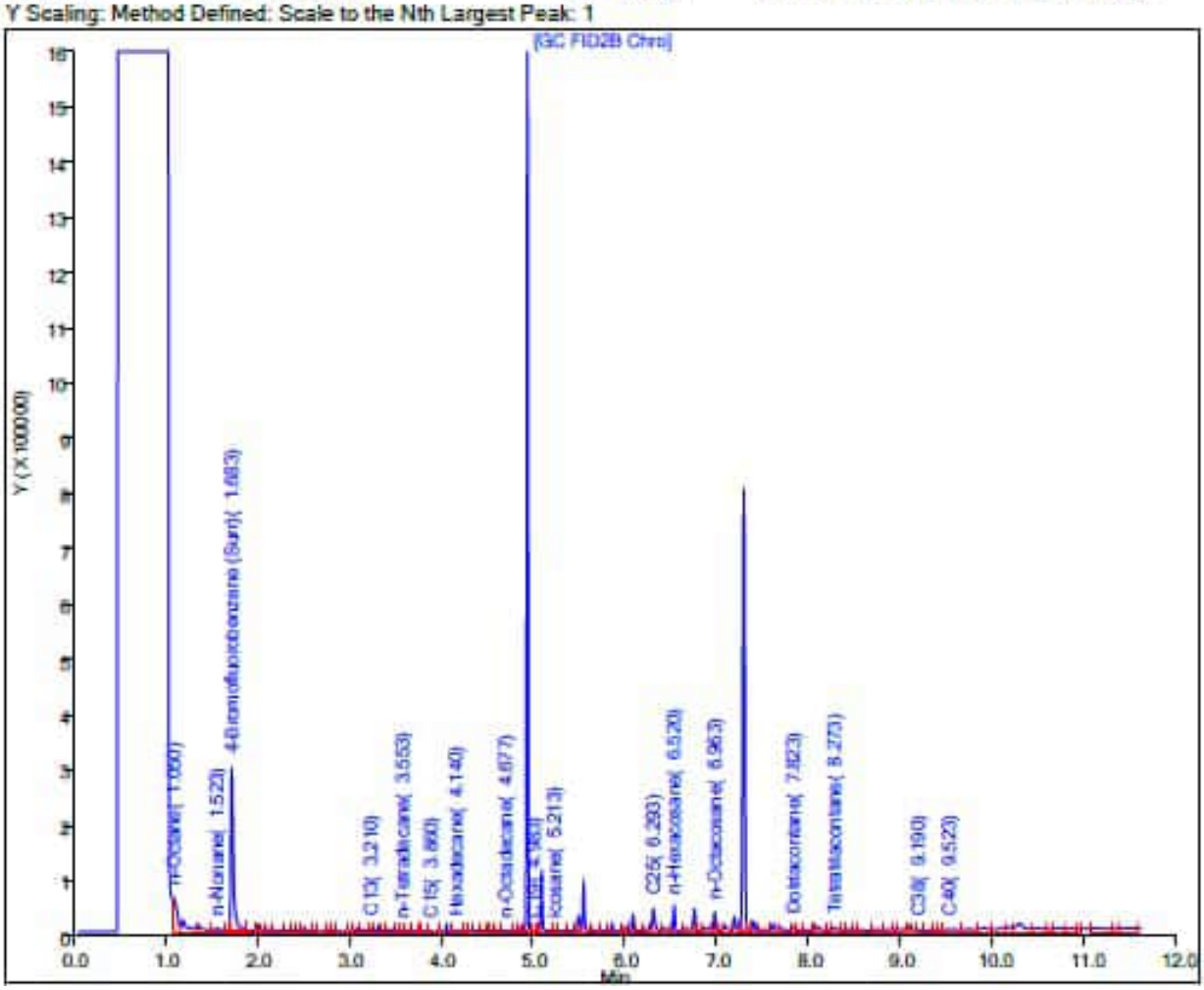
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 29-Sep-2022 15:59:01 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220928-85077.b\092822A027.D				
Injection Date:	28-Sep-2022 21:42:30	Instrument ID:	TAC129_R		
Lims ID:	580-118243-D-13-A	Lab Sample ID:	580-118243-13		
Client ID:	RHMW2254-01-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW2254-01 Sample ID: RHMW2254-01-WGN01LF-2209WK3 Sample Date: 09/22/2022
Lab: Eurofins Seattle

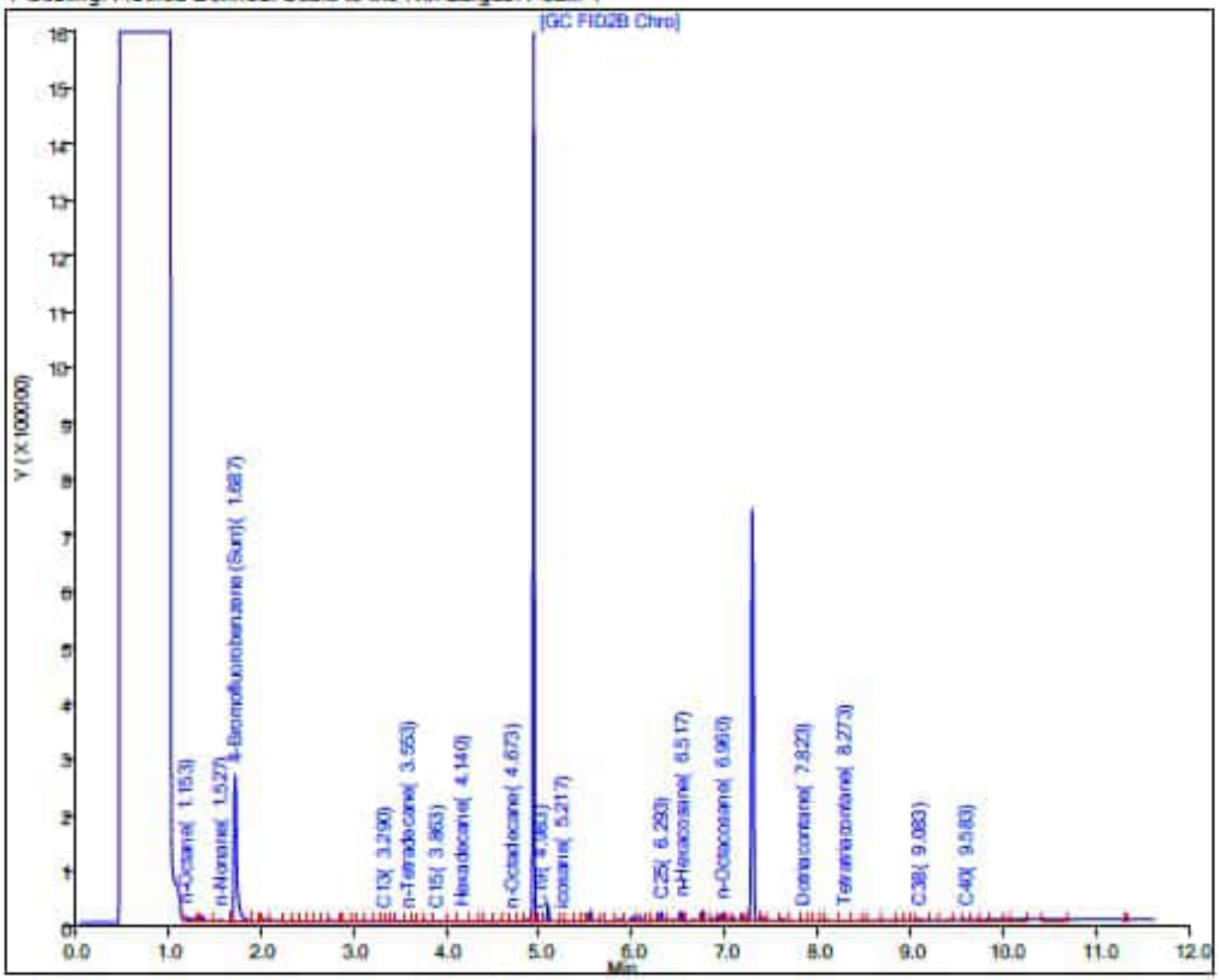
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 29-Sep-2022 15:58:47 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220928-85077.b\092822A019.D				
Injection Date:	28-Sep-2022 20:26:32	Instrument ID:	TAC129_R		
Lims ID:	580-118243-D-3-A	Lab Sample ID:	580-118243-3		
Client ID:	RHMW2254-01-WGN01LF-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW01R Sample ID: RHMW01R-WGN01B-2208WK4 Sample Date: 8/23/2022

Lab: Eurofins Seattle

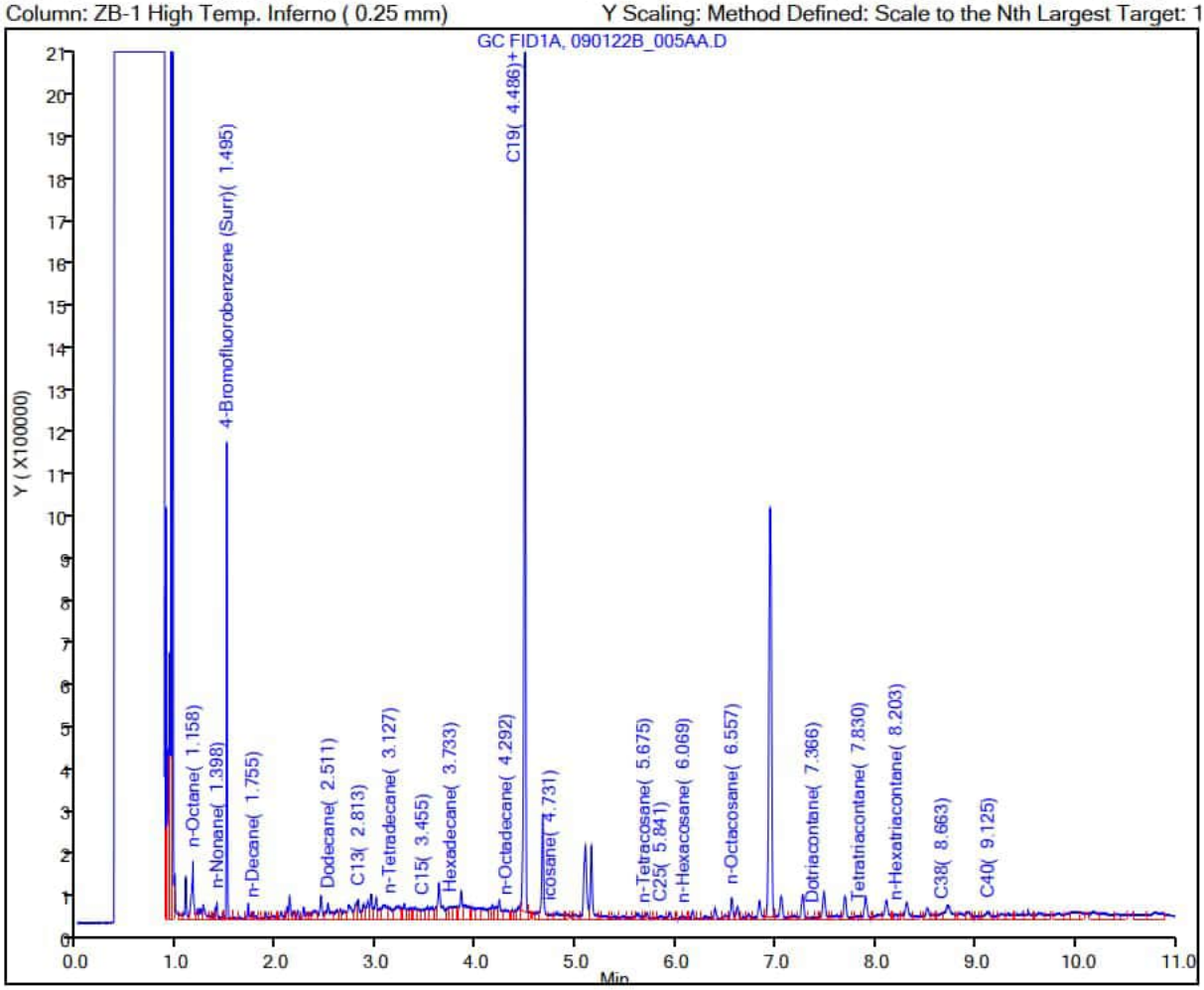
Results (ug/L): TPH-d (C10 to C24) 200 TPH-o (C24 to C40) <310 U

Report Date: 02-Sep-2022 22:48:37 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220901-84631.b\090122B_005AA.D				
Injection Date:	01-Sep-2022 23:02:30	Instrument ID:	TAC020		
Lims ID:	580-117247-F-1-A	Lab Sample ID:	580-117247-1		
Client ID:	RHMW01R-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



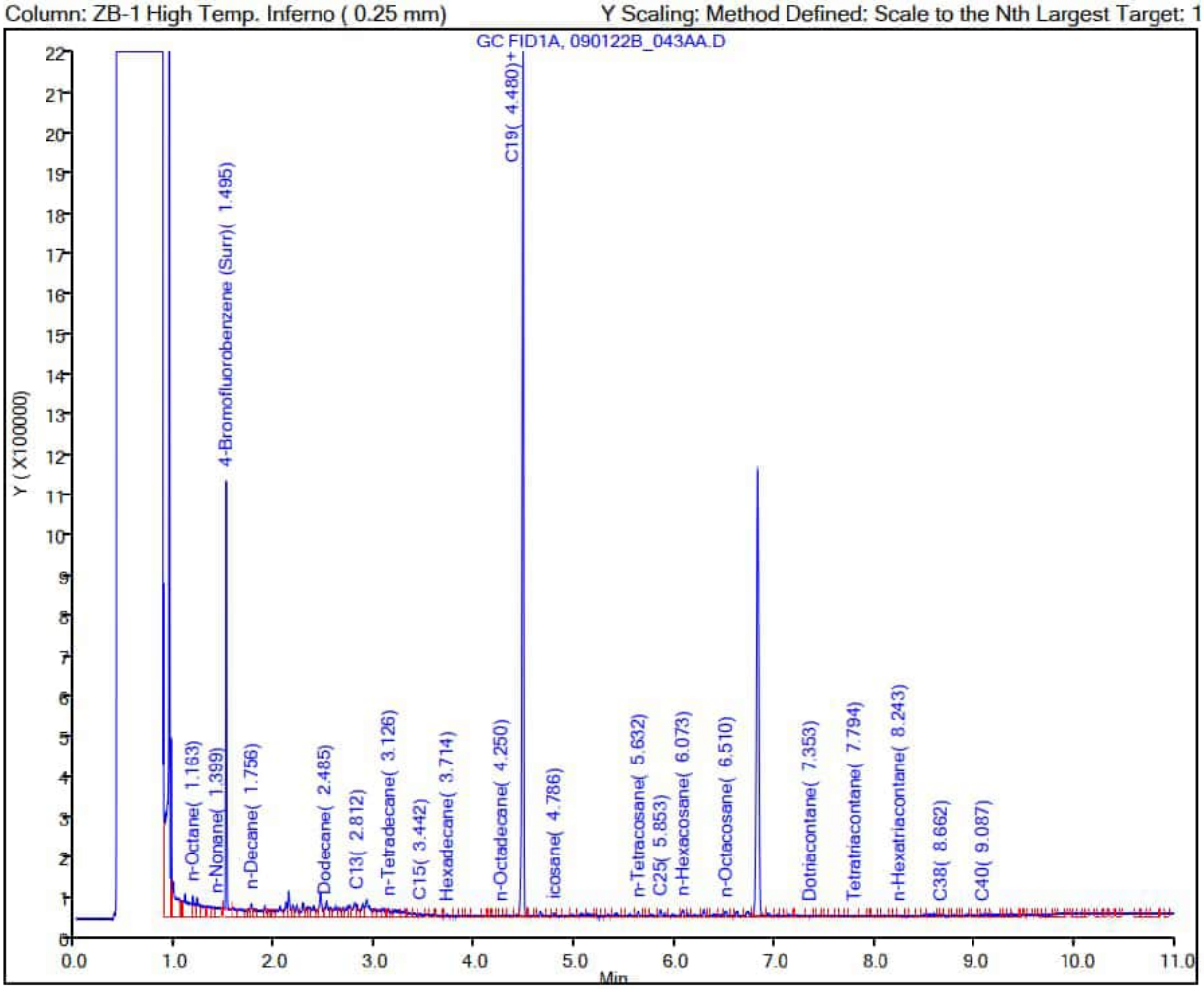
Results (ug/L): TPH-d SGC (C10 to C24) 94 J TPH-o SGC (C24 to C40) <310 U

Report Date: 02-Sep-2022 22:48:34 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220901-84631.b\090122B_043AA.D				
Injection Date:	02-Sep-2022 13:42:30	Instrument ID:	TAC020		
Lims ID:	580-117247-F-1-B	Lab Sample ID:	580-117247-1		
Client ID:	RHMW01R-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	38	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW01R Sample ID: RHMW01R-WGN01B-2208WK5 Sample Date: 8/30/2022

Lab: Eurofins Seattle

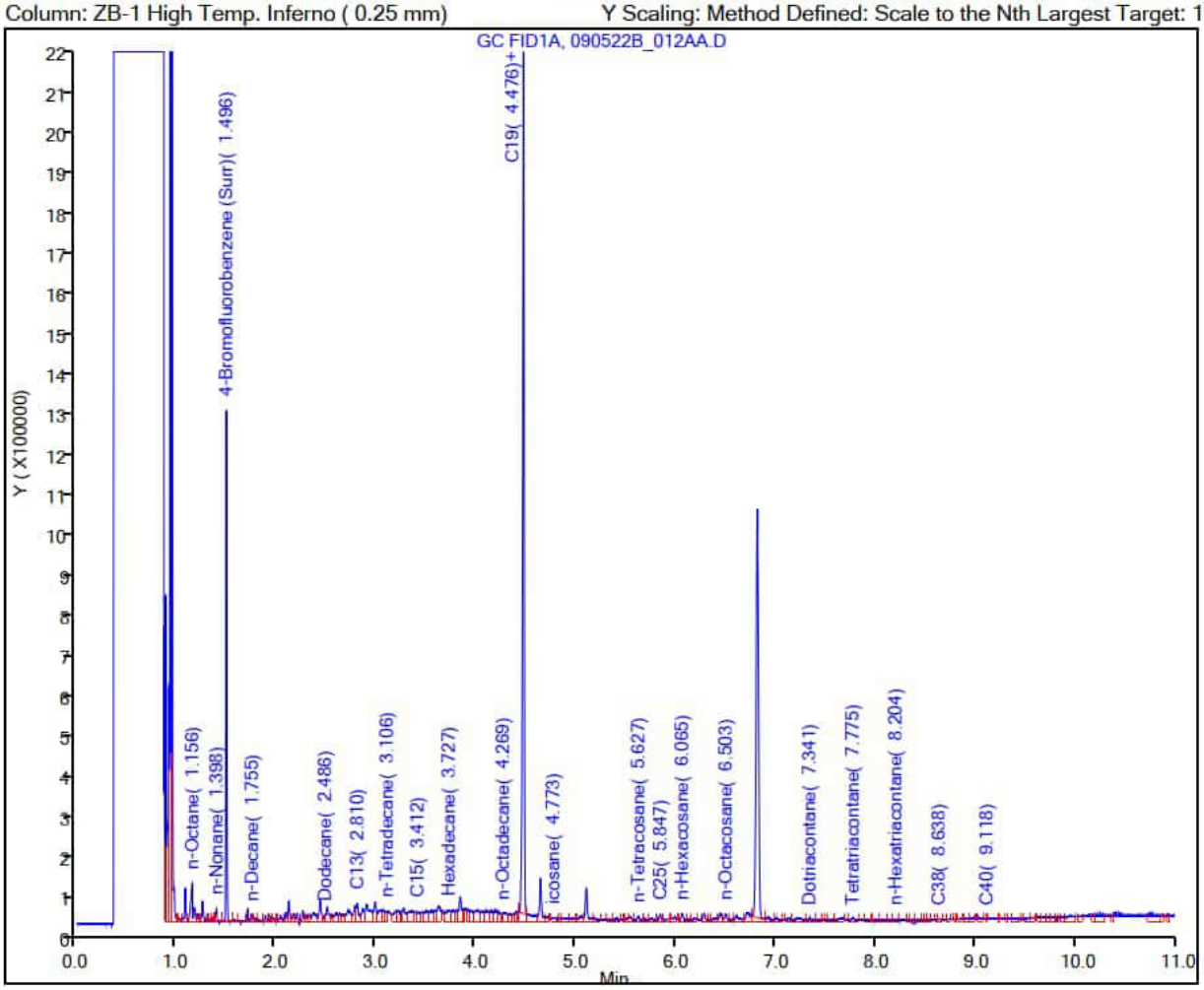
Results (ug/L): TPH-d (C10 to C24) 160 TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 12:55:10 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_012AA.D				
Injection Date:	06-Sep-2022 00:42:30	Instrument ID:	TAC020		
Lims ID:	580-117486-F-3-A	Lab Sample ID:	580-117486-3		
Client ID:	RHWMW01R-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	72
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



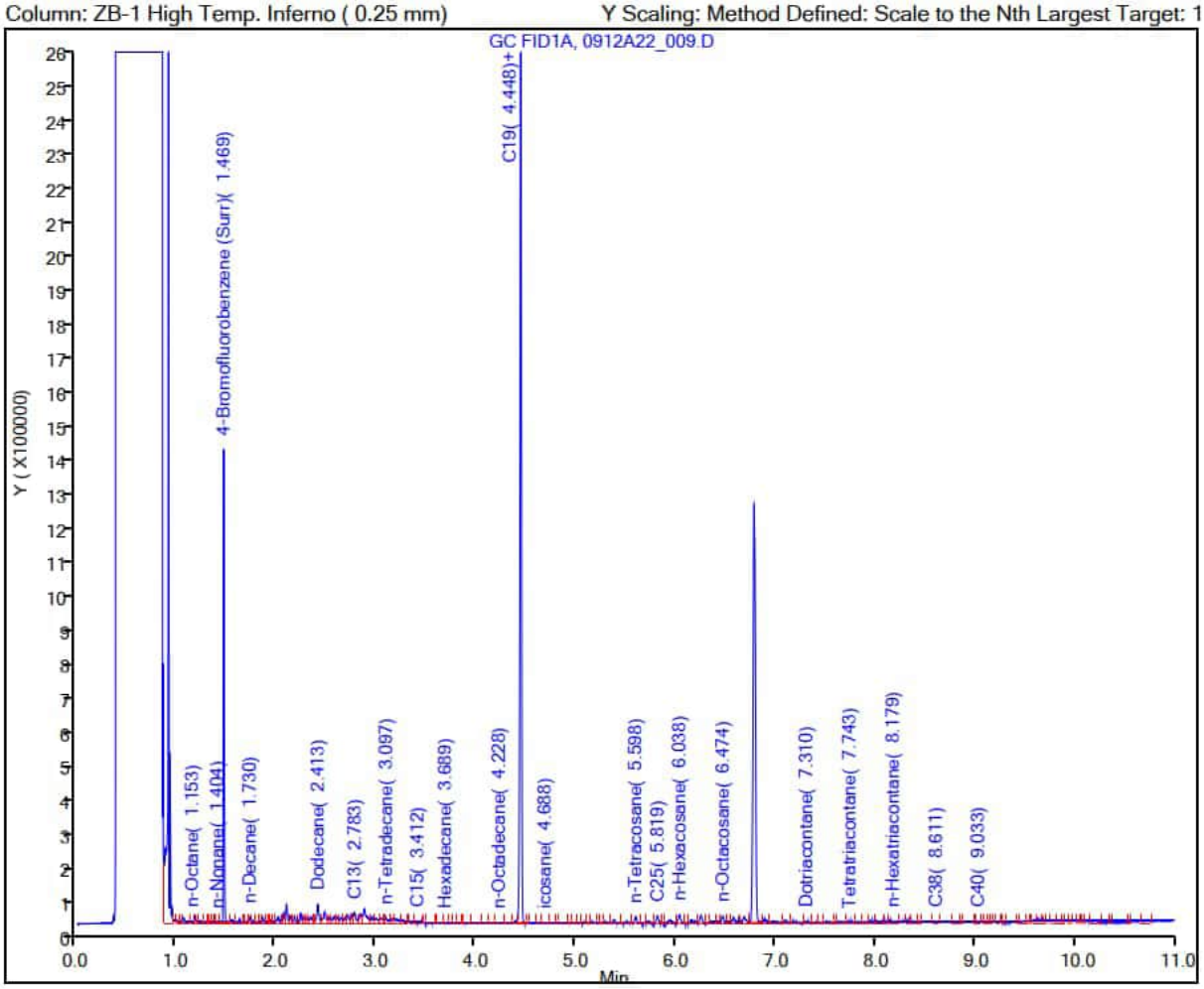
Results (ug/L): TPH-d SGC (C10 to C24) <100 U TPH-o SGC (C24 to C40) <310 U Q

Report Date: 12-Sep-2022 22:00:17 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_009.D				
Injection Date:	12-Sep-2022 19:59:30	Instrument ID:	TAC020		
Lims ID:	580-117486-F-3-B	Lab Sample ID:	580-117486-3		
Client ID:	RHWMW01R-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW01R Sample ID: RHMW01R-WGN01B-2209WK4 Sample Date: 9/27/2022
Lab: Eurofins Seattle

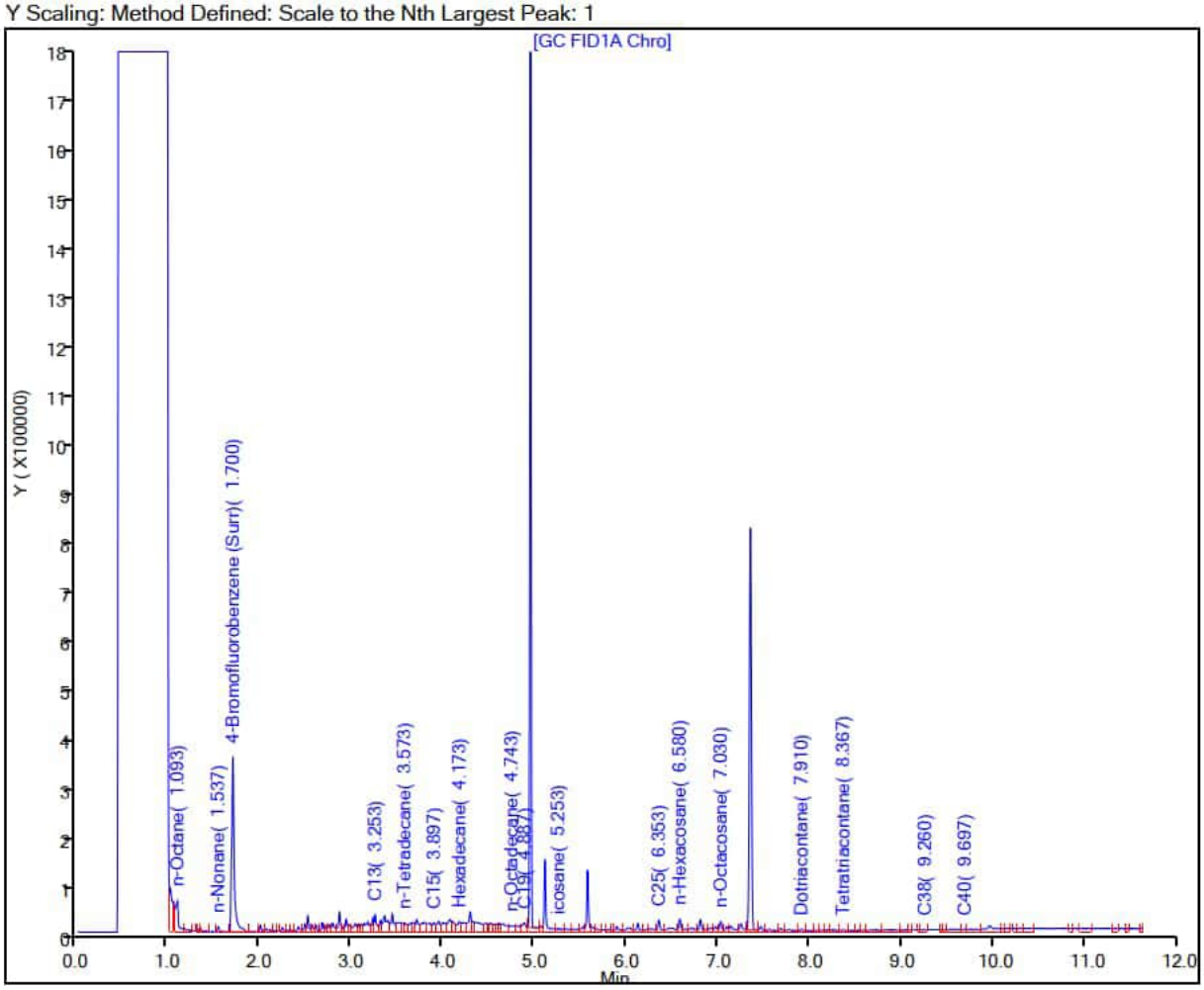
Results (ug/L): TPH-d (C10 to C24) 130 TPH-o (C24 to C40) <300 U

Report Date: 04-Oct-2022 12:31:32 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221003-85158.b\091522A016.D				
Injection Date:	03-Oct-2022 19:57:55	Instrument ID:	TAC129		
Lims ID:	580-118344-C-9-A	Lab Sample ID:	580-118344-9		
Client ID:	RHMW01R-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



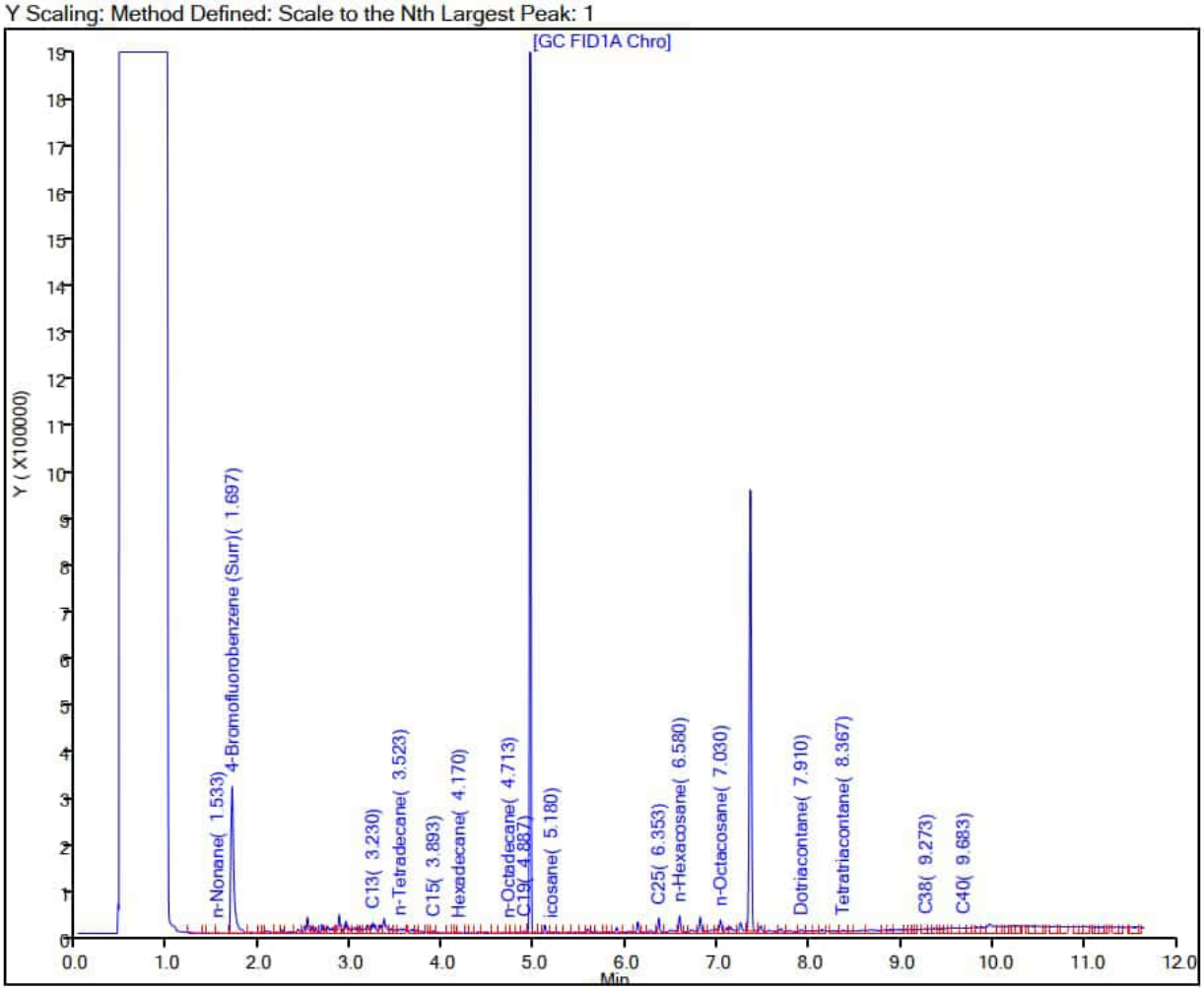
Results (ug/L): TPH-d SGC (C10 to C24) <100 U TPH-o SGC (C24 to C40) <300 U

Report Date: 05-Oct-2022 12:39:26 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\091522A016.D				
Injection Date:	04-Oct-2022 18:15:40	Instrument ID:	TAC129		
Lims ID:	580-118344-C-9-B	Lab Sample ID:	580-118344-9		
Client ID:	RHMW01R-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: RHMW02 Sample ID: RHMW02-WGN01B-2208WK2 Sample Date: 8/9/2022

Results (ug/L): TPH-d (C10 to C24) 3200 TPH-o (C24 to C40) 210 J

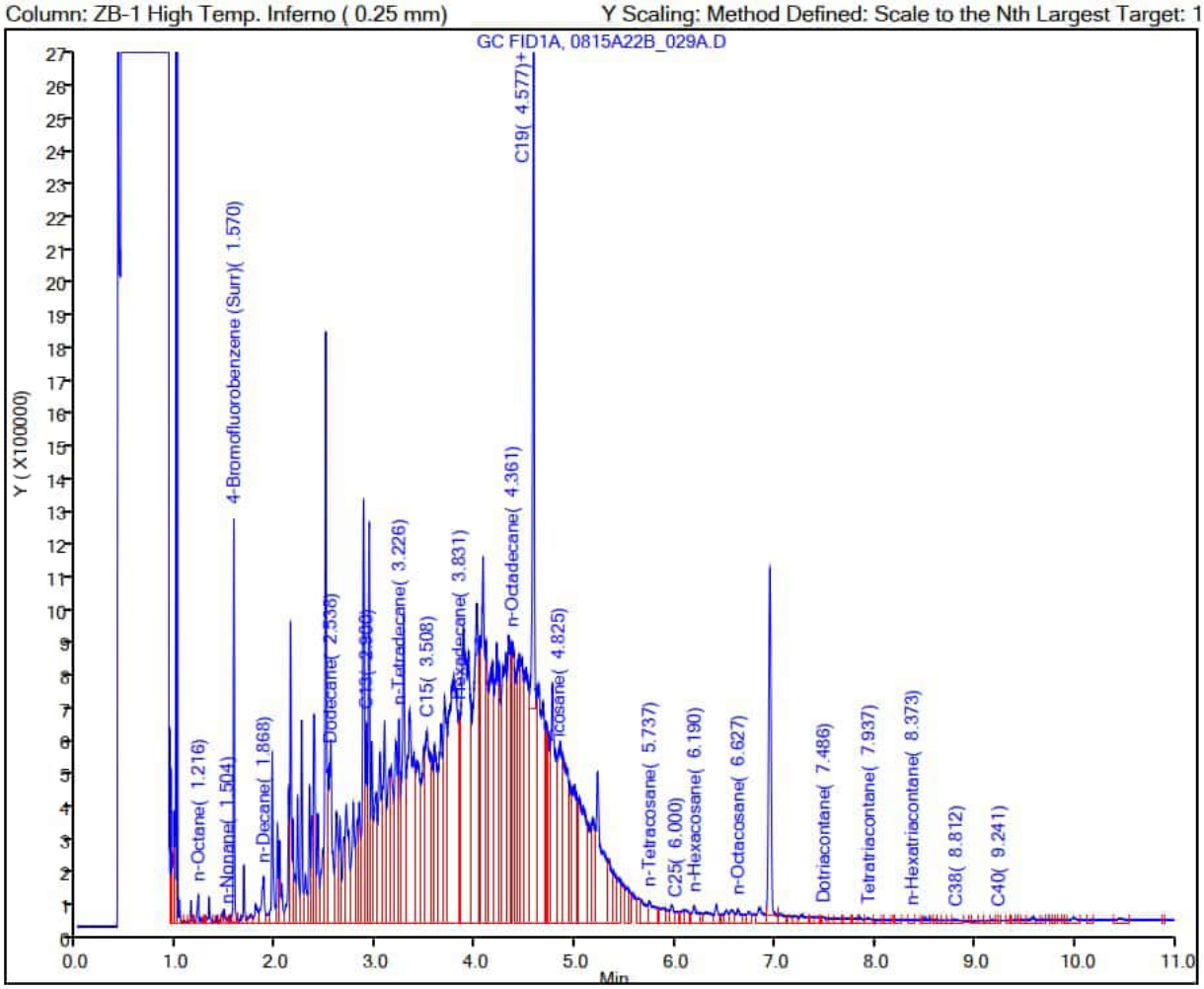
Lab: Eurofins Seattle

Report Date: 08-Sep-2022 13:14:43 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220815-84310.b\0815A22B_029A.D				
Injection Date:	16-Aug-2022 04:18:30	Instrument ID:	TAC020		
Lims ID:	580-116809-F-5-A	Lab Sample ID:	580-116809-5		
Client ID:	RHMW02-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



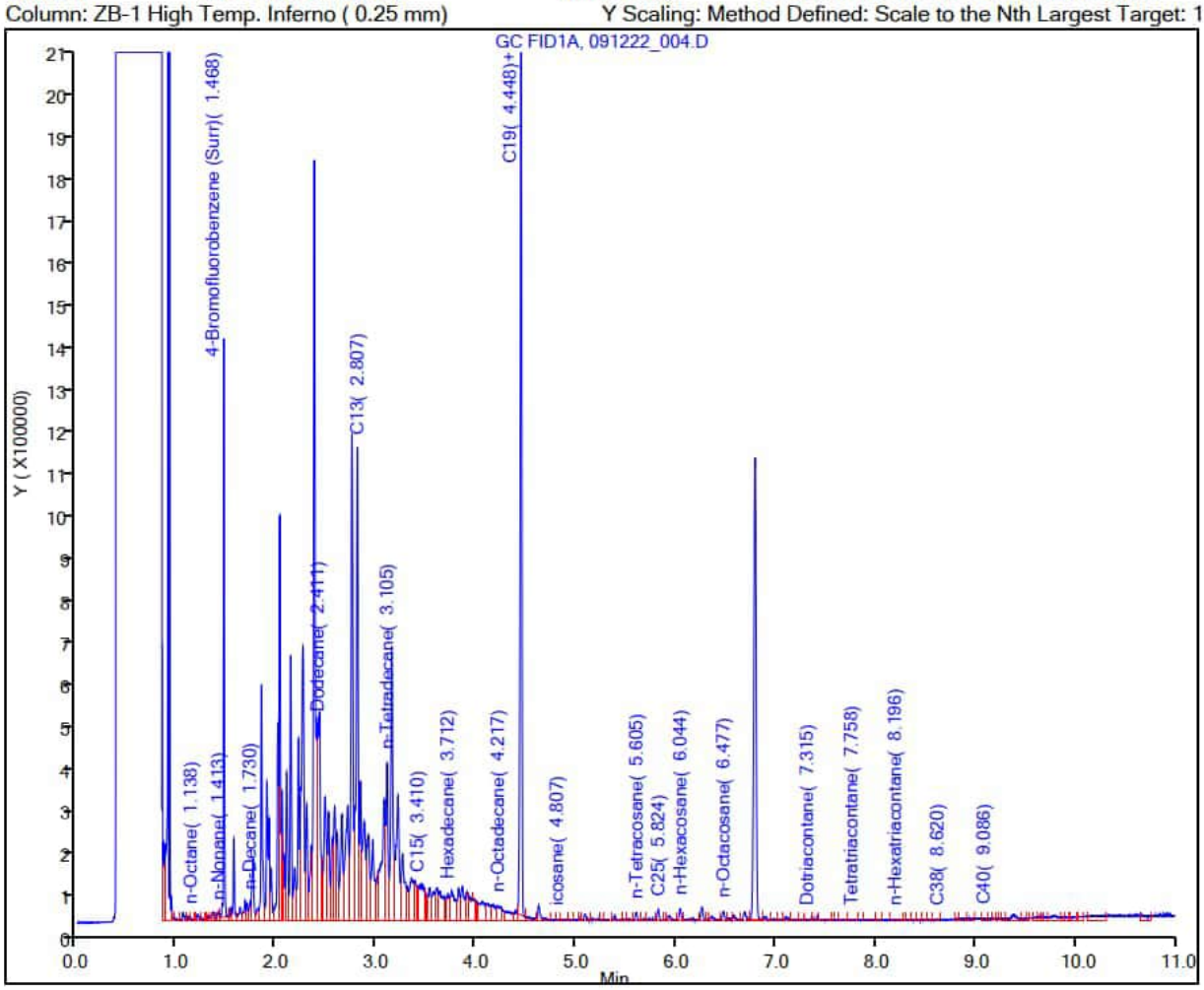
Results (ug/L): TPH-d SGC (C10 to C24) 1100 TPH-o SGC (C24 to C40) 370

Report Date: 12-Sep-2022 13:57:46 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84774.b\091222_004.D				
Injection Date:	12-Sep-2022 11:36:30	Instrument ID:	TAC020		
Lims ID:	580-116809-F-5-C	Lab Sample ID:	580-116809-5		
Client ID:	RHMW02-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	40	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW02 Sample ID: RHMW02-WGN01B-2208WK3 Sample Date: 8/16/2022

Lab: Eurofins Seattle

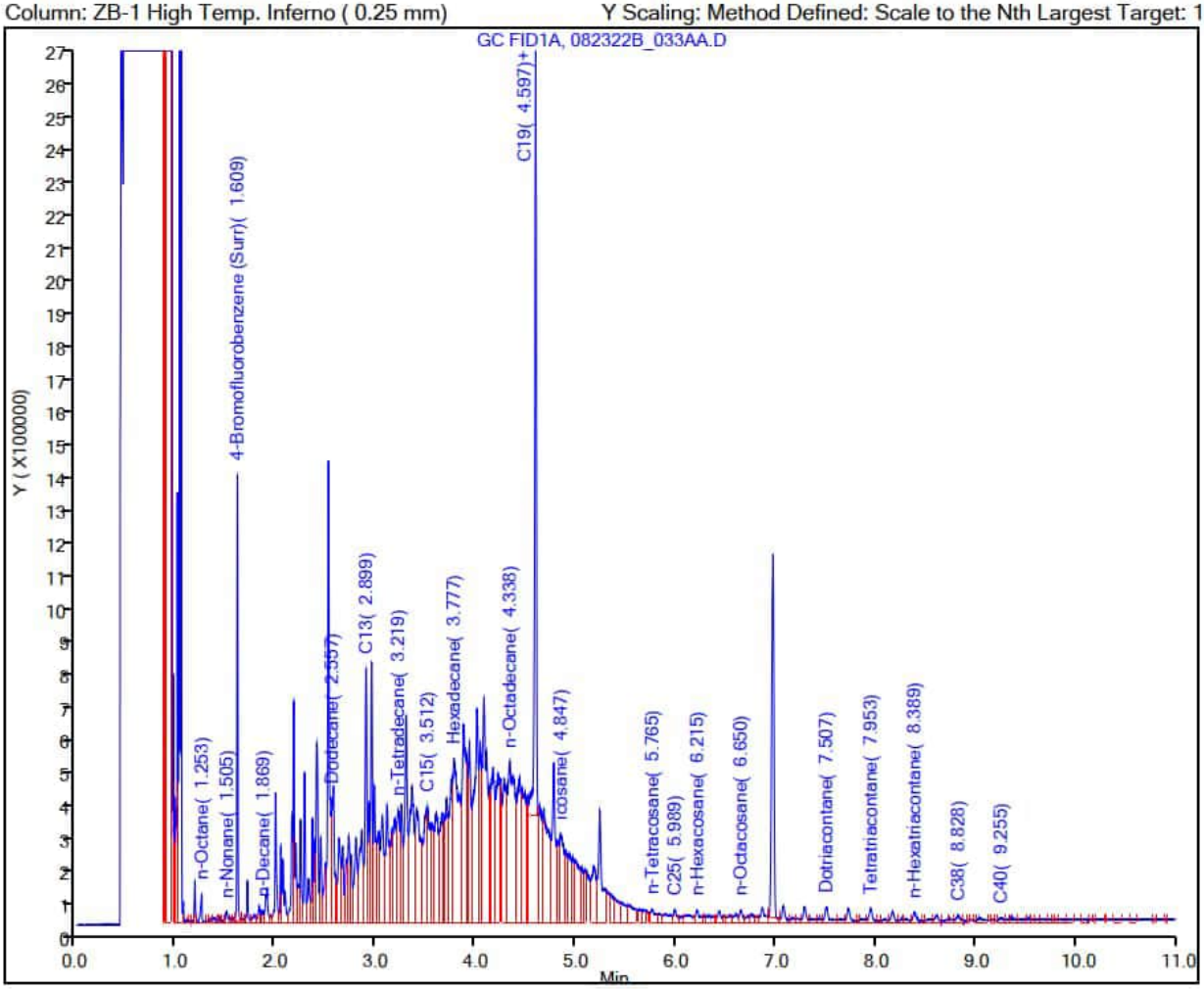
Results (ug/L): TPH-d (C10 to C24) 1900 TPH-o (C24 to C40) <310 U

Report Date: 24-Aug-2022 09:26:14 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_033AA.D				
Injection Date:	24-Aug-2022 04:48:30	Instrument ID:	TAC020		
Lims ID:	580-117032-C-15-A	Lab Sample ID:	580-117032-15		
Client ID:	RHMW02-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	33	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



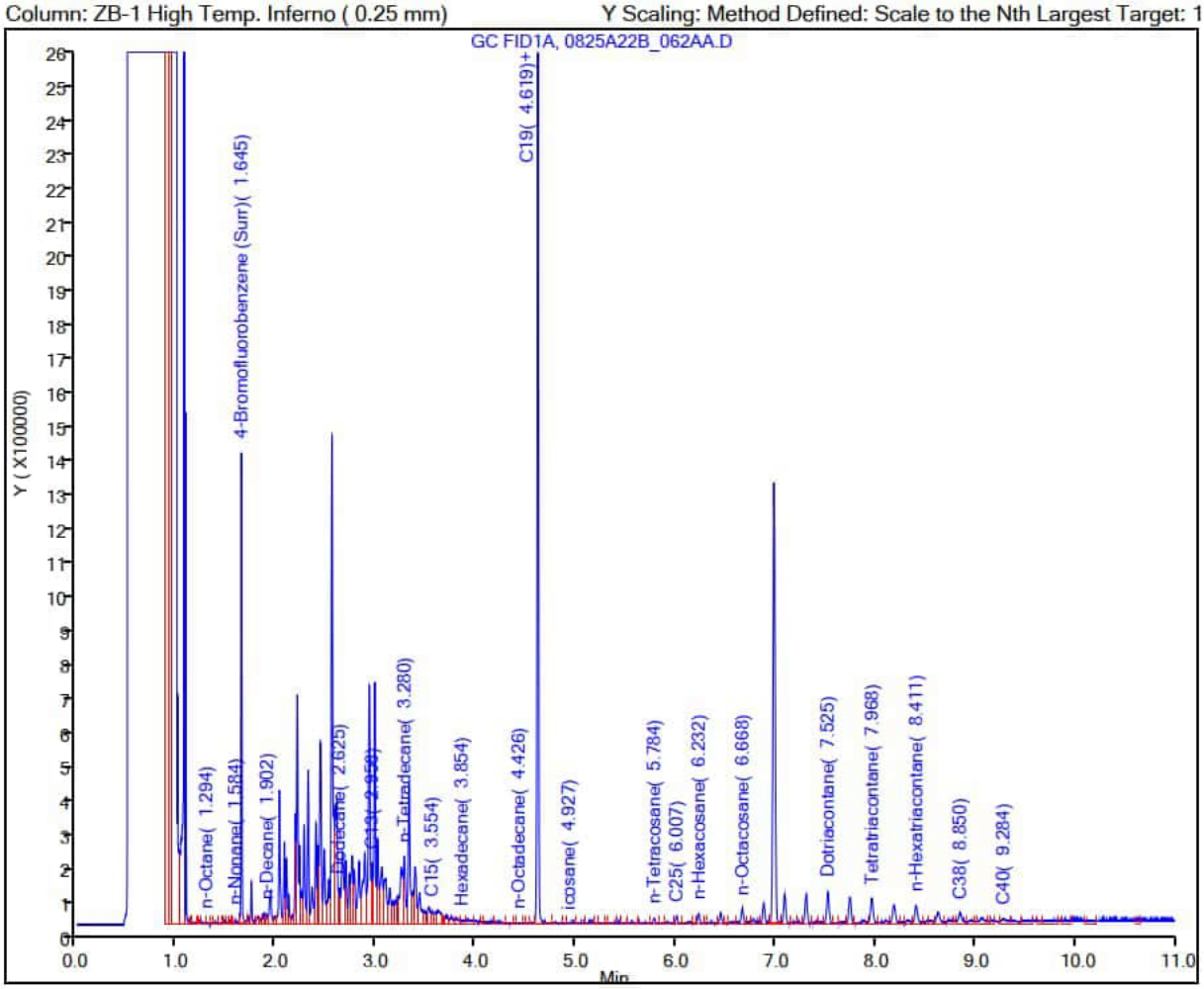
Results (ug/L): TPH-d SGC (C10 to C24) 440 TPH-o SGC (C24 to C40) <310 U

Report Date: 26-Aug-2022 21:18:37 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84521.b\0825A22B_062AA.D				
Injection Date:	26-Aug-2022 20:41:30	Instrument ID:	TAC020		
Lims ID:	580-117032-C-15-B	Lab Sample ID:	580-117032-15		
Client ID:	RHMW02-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	61	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW02 Sample ID: RHMW02-WGN01B-2208WK5 Sample Date: 8/30/2022

Lab: Eurofins Seattle

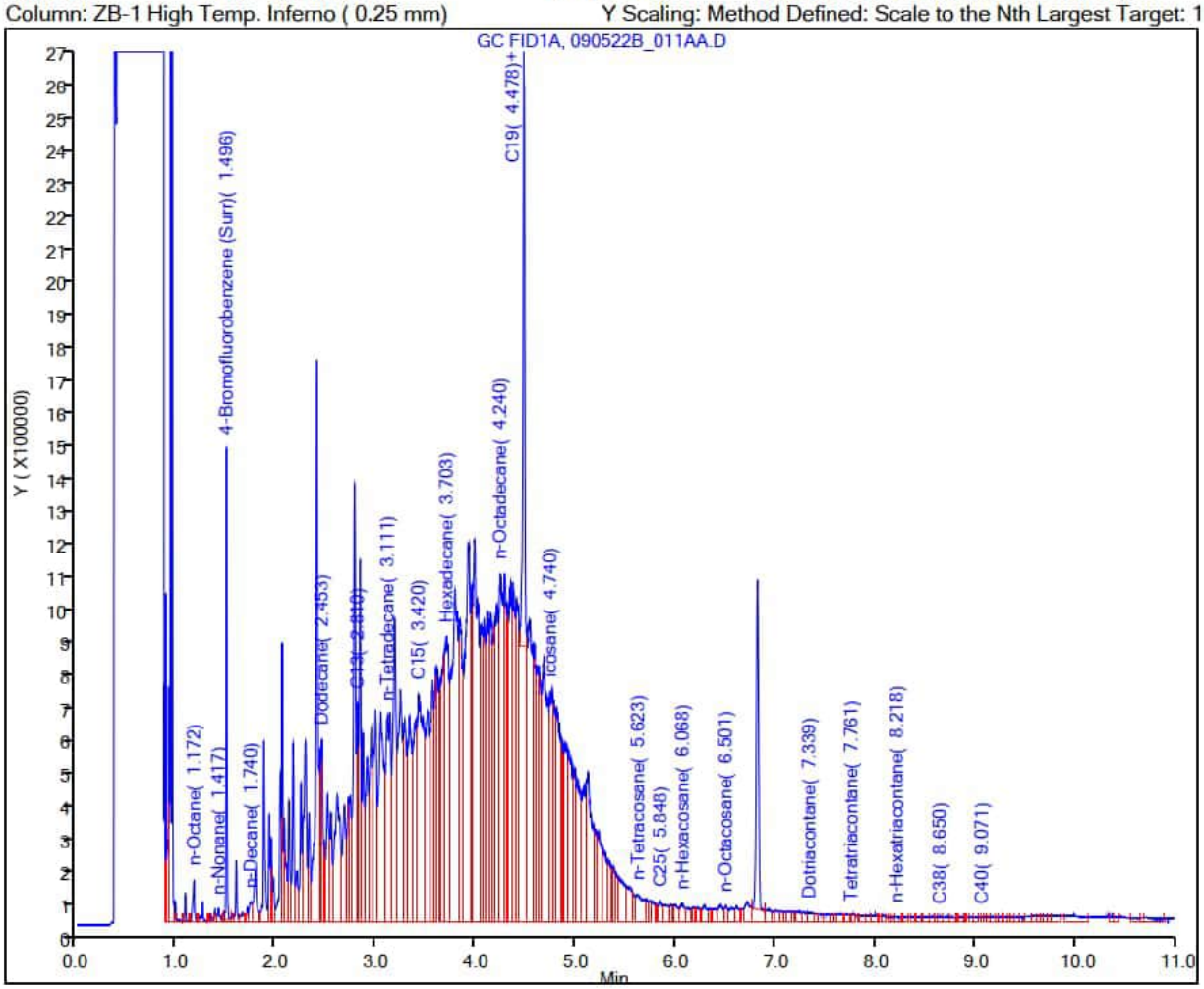
Results (ug/L): TPH-d (C10 to C24) 4000 TPH-o (C24 to C40) 350 J

Report Date: 12-Sep-2022 12:55:05 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_011AA.D				
Injection Date:	06-Sep-2022 00:22:30	Instrument ID:	TAC020		
Lims ID:	580-117486-F-1-A	Lab Sample ID:	580-117486-1		
Client ID:	RHWMW02-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	71
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



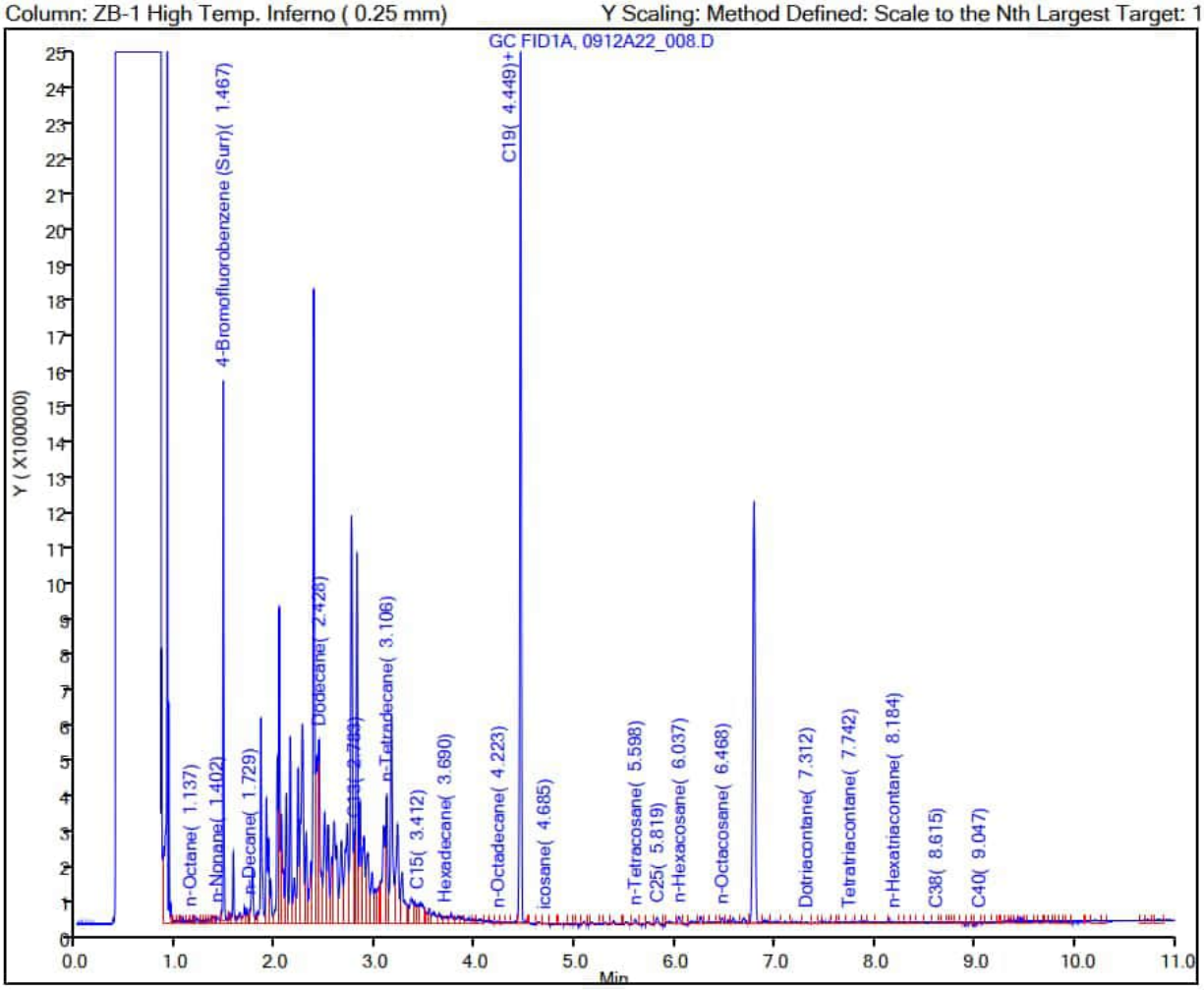
Results (ug/L): TPH-d SGC (C10 to C24) 710 TPH-o SGC (C24 to C40) < 310 U Q

Report Date: 12-Sep-2022 22:00:21 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_008.D				
Injection Date:	12-Sep-2022 19:39:30	Instrument ID:	TAC020		
Lims ID:	580-117486-F-1-B	Lab Sample ID:	580-117486-1		
Client ID:	RHWMW02-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW02 Sample ID: RHMW02-WGN01B-2209WK3 Sample Date: 9/20/2022
Lab: Eurofins Seattle

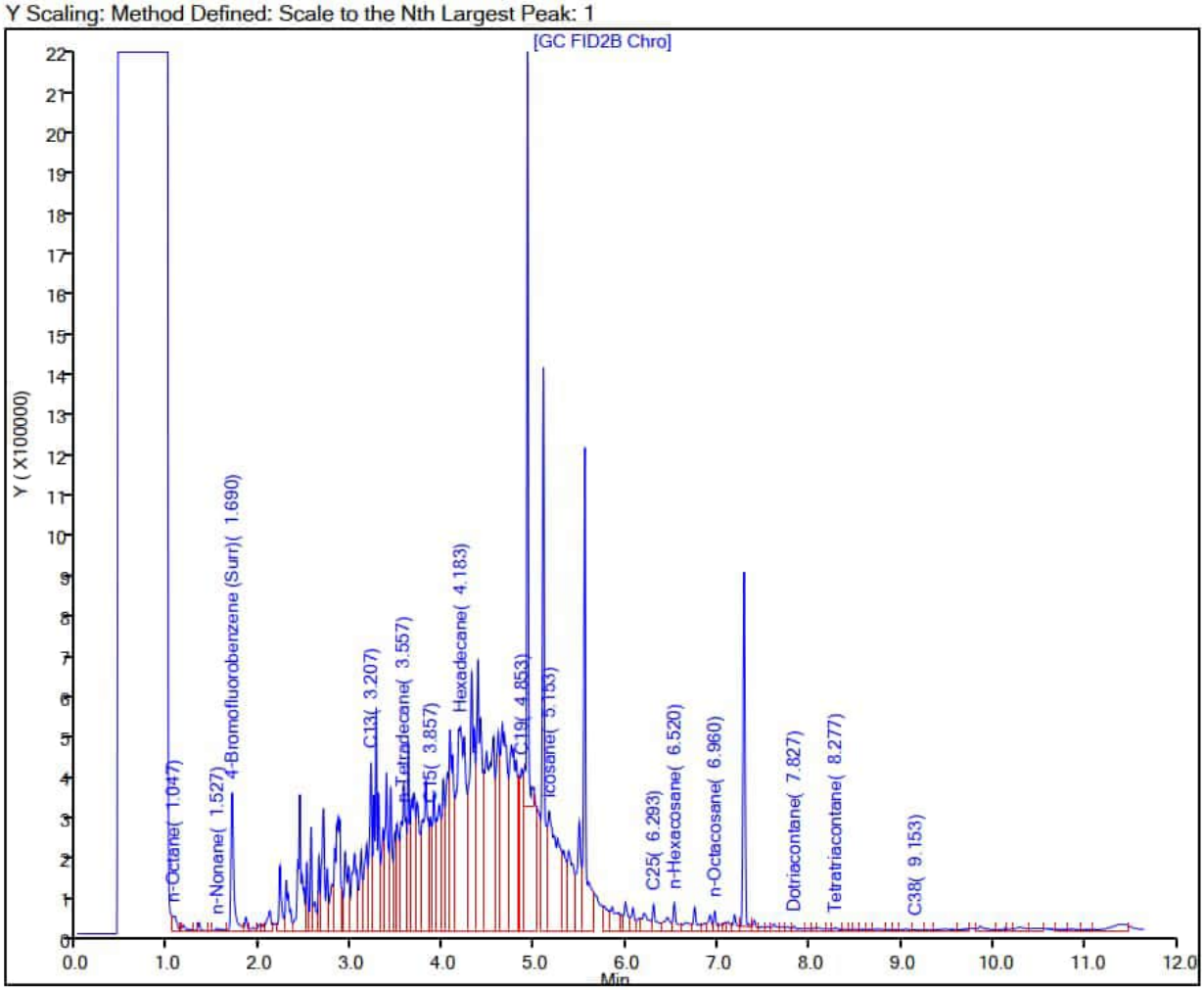
Results (ug/L): TPH-d (C10 to C24) 2900 TPH-o (C24 to C40) 260 J

Report Date: 28-Sep-2022 14:38:20 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A019.D				
Injection Date:	27-Sep-2022 18:37:55	Instrument ID:	TAC129_R		
Lims ID:	580-118153-C-11-A	Lab Sample ID:	580-118153-11		
Client ID:	RHMW02-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



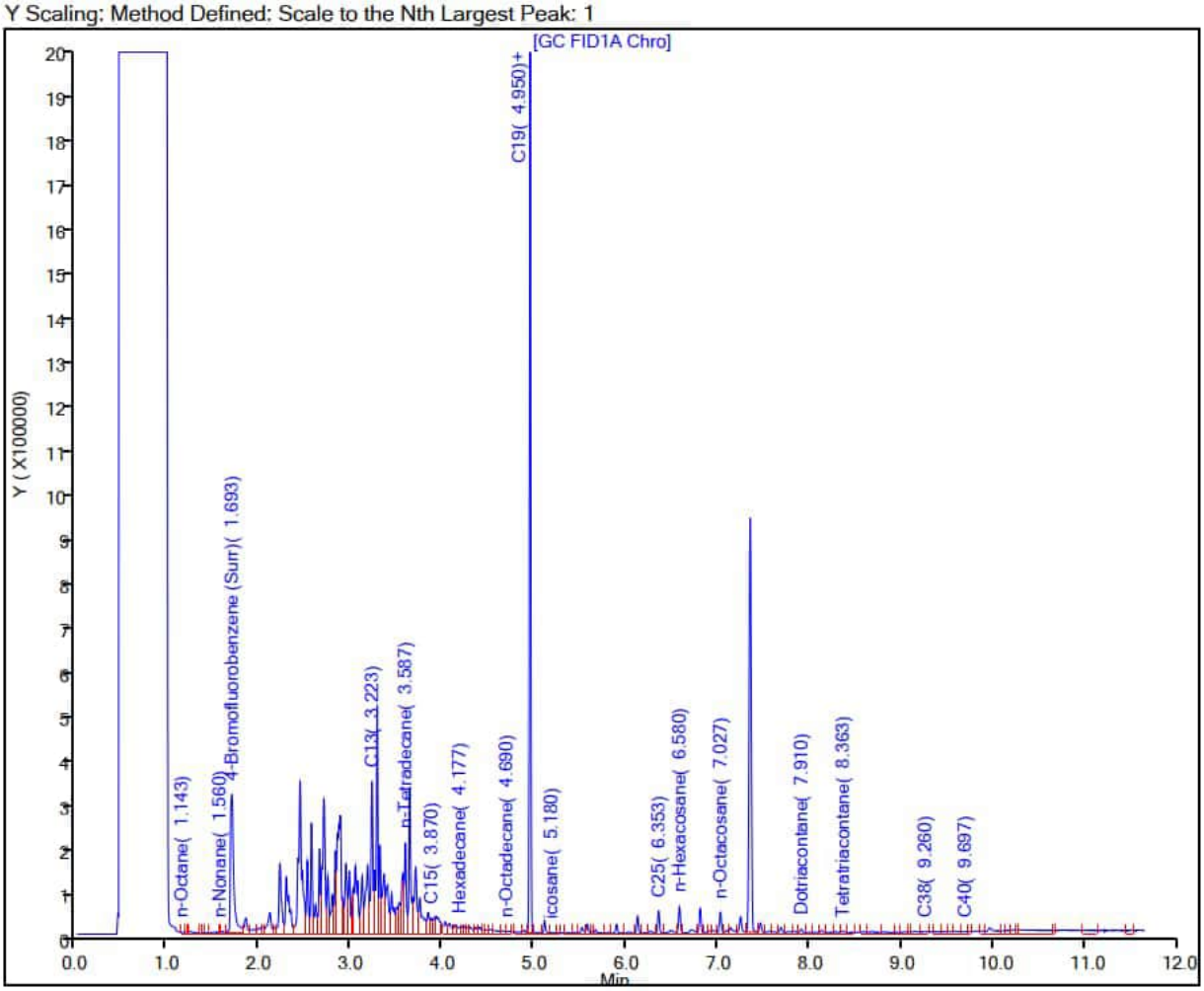
Results (ug/L): TPH-d SGC (C10 to C24) 510 TPH-o SGC (C24 to C40) <310 U

Report Date: 29-Sep-2022 14:44:03 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220928-85071.b\092822A018.D				
Injection Date:	28-Sep-2022 20:07:33	Instrument ID:	TAC129		
Lims ID:	580-118153-C-11-B	Lab Sample ID:	580-118153-11		
Client ID:	RHMW02-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: RHMW02 Sample ID: RHMW02-WGN01B-2209WK4 Sample Date: 9/27/2022
Lab: Eurofins Seattle

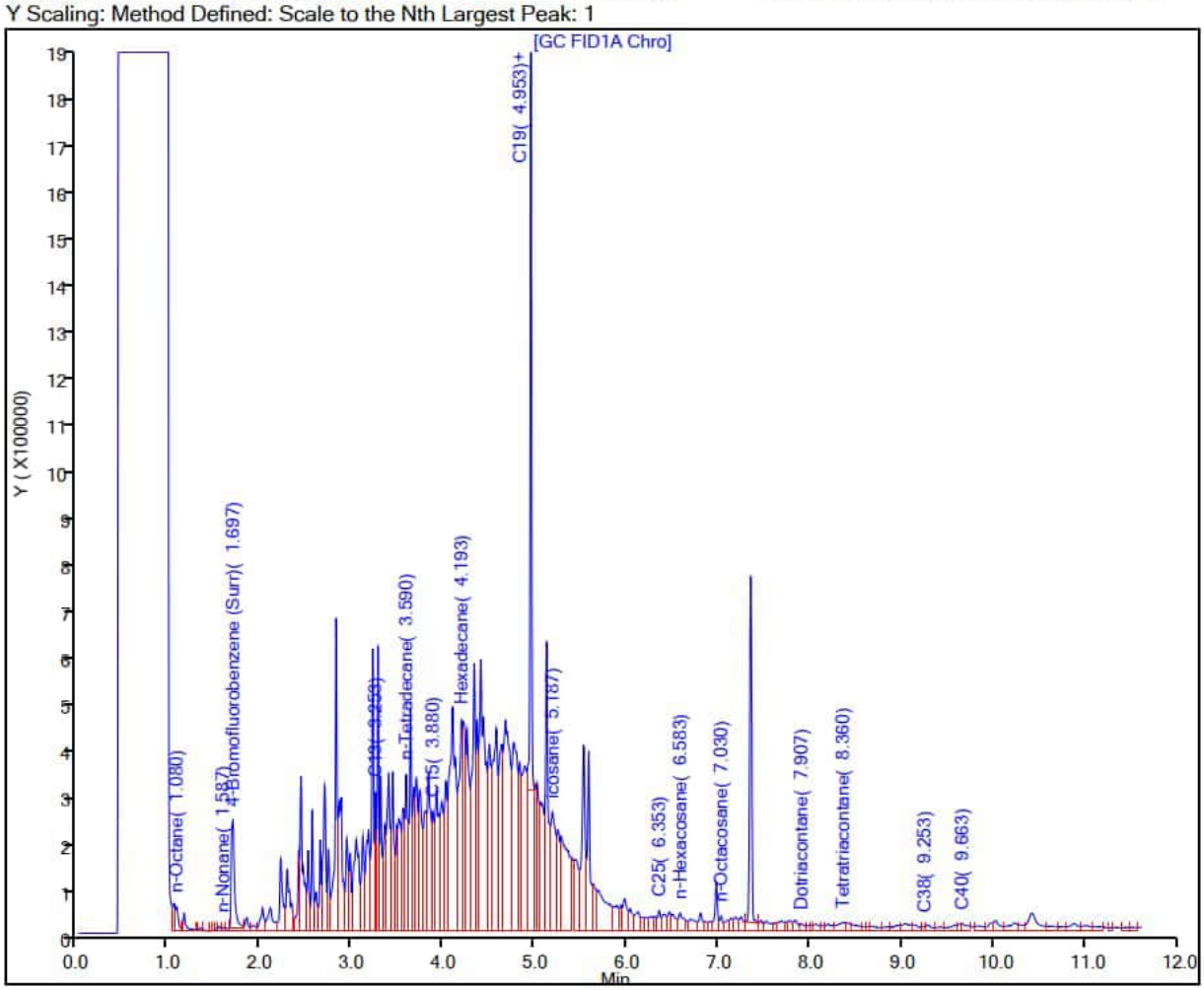
Results (ug/L): TPH-d (C10 to C24) 2400 TPH-o (C24 to C40) 260 J

Report Date: 03-Oct-2022 13:37:03 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A026.D				
Injection Date:	30-Sep-2022 23:15:41	Instrument ID:	TAC129		
Lims ID:	580-118344-C-1-A	Lab Sample ID:	580-118344-1		
Client ID:	RHMW02-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



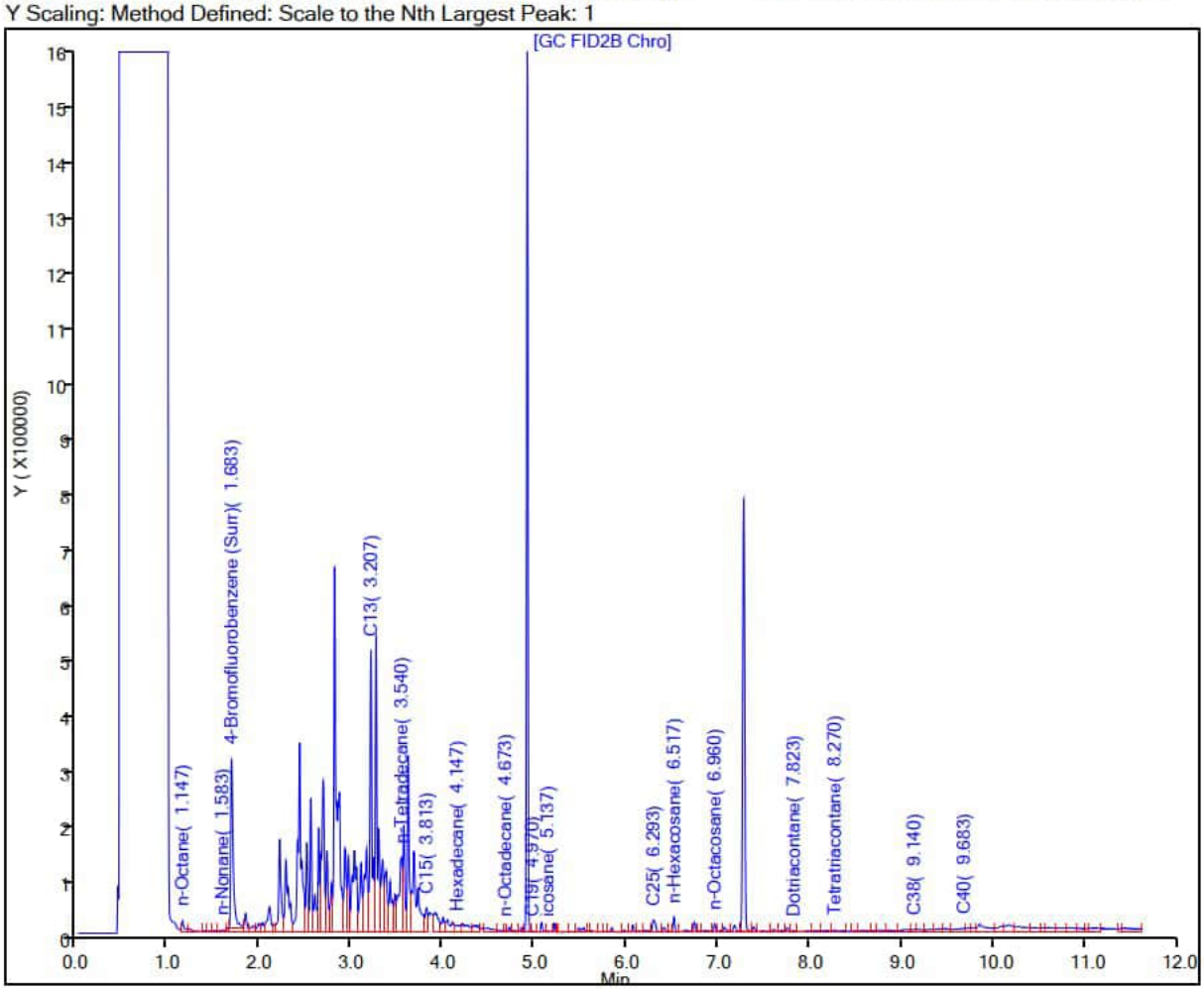
Results (ug/L): TPH-d SGC (C10 to C24) 580 TPH-o SGC (C24 to C40) <310 U

Report Date: 04-Oct-2022 16:34:23 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221003-85159.b\091522A007.D				
Injection Date:	03-Oct-2022 18:41:57	Instrument ID:	TAC129_R		
Lims ID:	580-118344-C-1-B	Lab Sample ID:	580-118344-1		
Client ID:	RHMW02-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: RHMW03 Sample ID: RHMW03-WGN01B-2208WK3 Sample Date: 8/16/2022
Lab: Eurofins Seattle

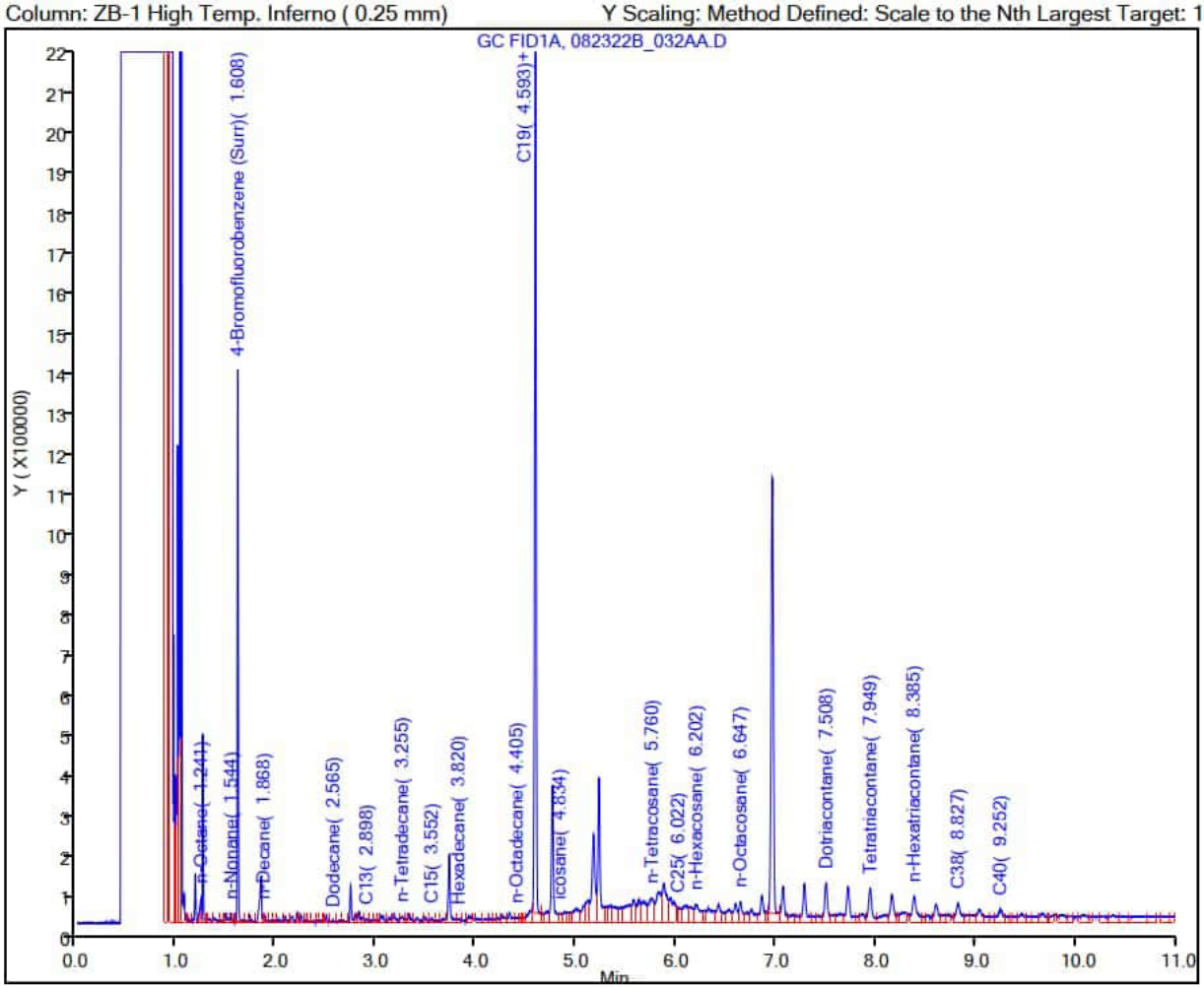
Results (ug/L): TPH-d (C10 to C24) 180 TPH-o (C24 to C40) 210 J

Report Date: 24-Aug-2022 09:26:09 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_032AA.D				
Injection Date:	24-Aug-2022 04:27:30	Instrument ID:	TAC020		
Lims ID:	580-117032-D-11-A	Lab Sample ID:	580-117032-11		
Client ID:	RHMW03-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	32	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



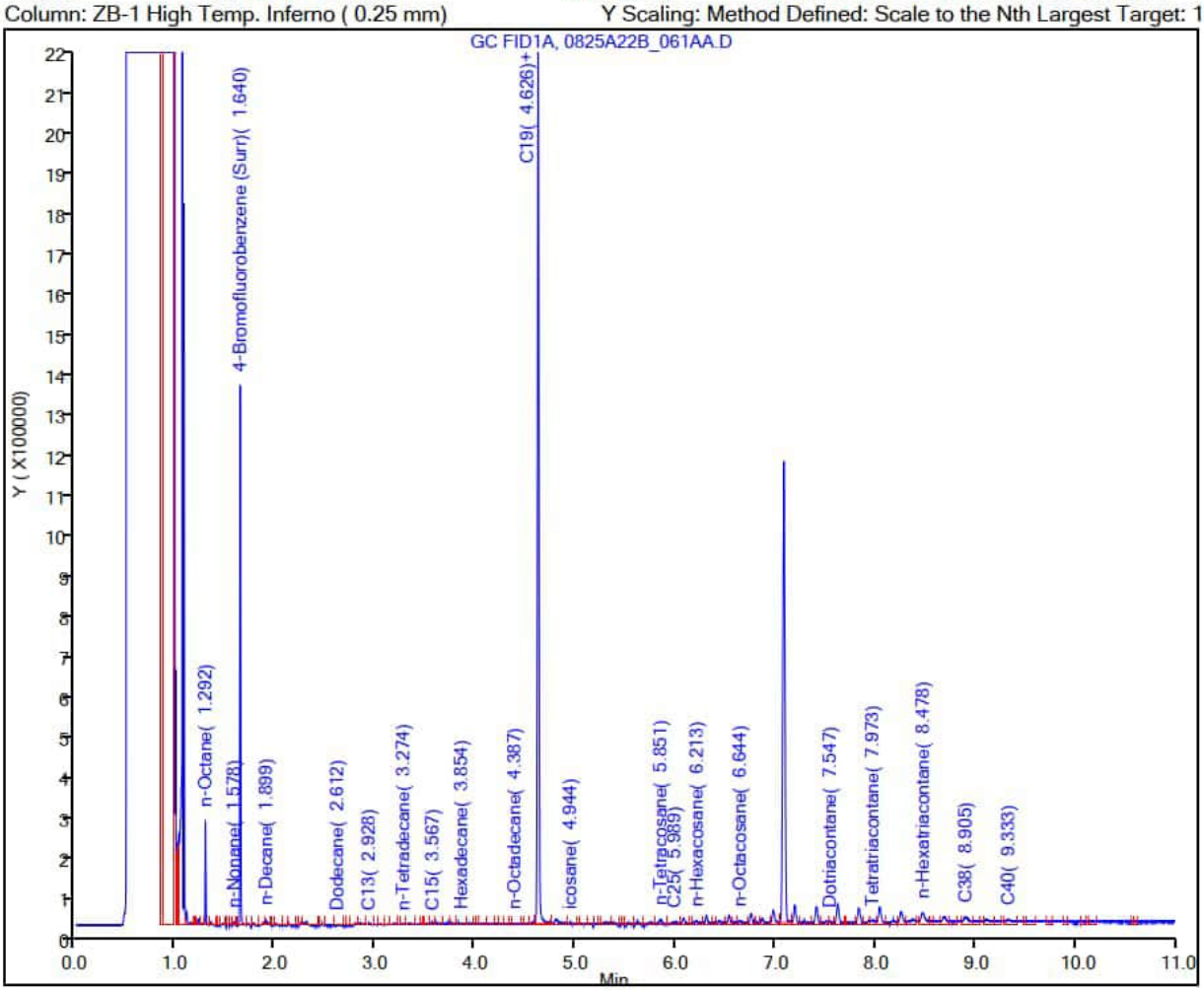
Results (ug/L): TPH-d SGC (C10 to C24) <100 U TPH-o SGC (C24 to C40) <300 U

Report Date: 26-Aug-2022 21:18:33 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84521.b\0825A22B_061AA.D				
Injection Date:	26-Aug-2022 20:21:30	Instrument ID:	TAC020		
Lims ID:	580-117032-D-11-B	Lab Sample ID:	580-117032-11		
Client ID:	RHMW03-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	60	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW03 Sample ID: RHMW03-WGN01B-2208WK4 Sample Date: 8/23/2022
Lab: Eurofins Seattle

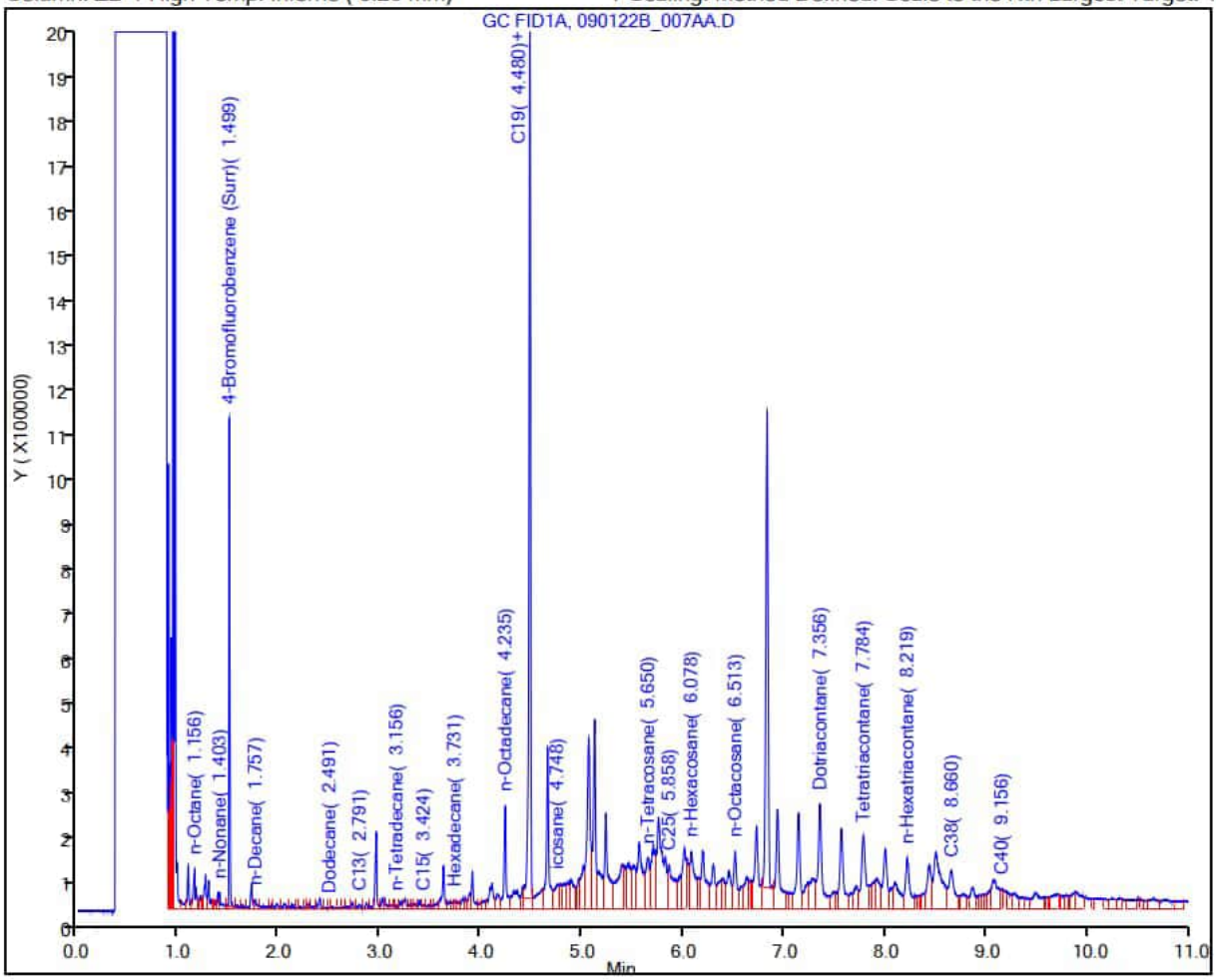
Results (ug/L): TPH-d (C10 to C24) 310 TPH-o (C24 to C40) 640

Report Date: 02-Sep-2022 22:48:41 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220901-84631.b\090122B_007AA.D				
Injection Date:	01-Sep-2022 23:43:30	Instrument ID:	TAC020		
Lims ID:	580-117247-F-7-A	Lab Sample ID:	580-117247-7		
Client ID:	RHMW03-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



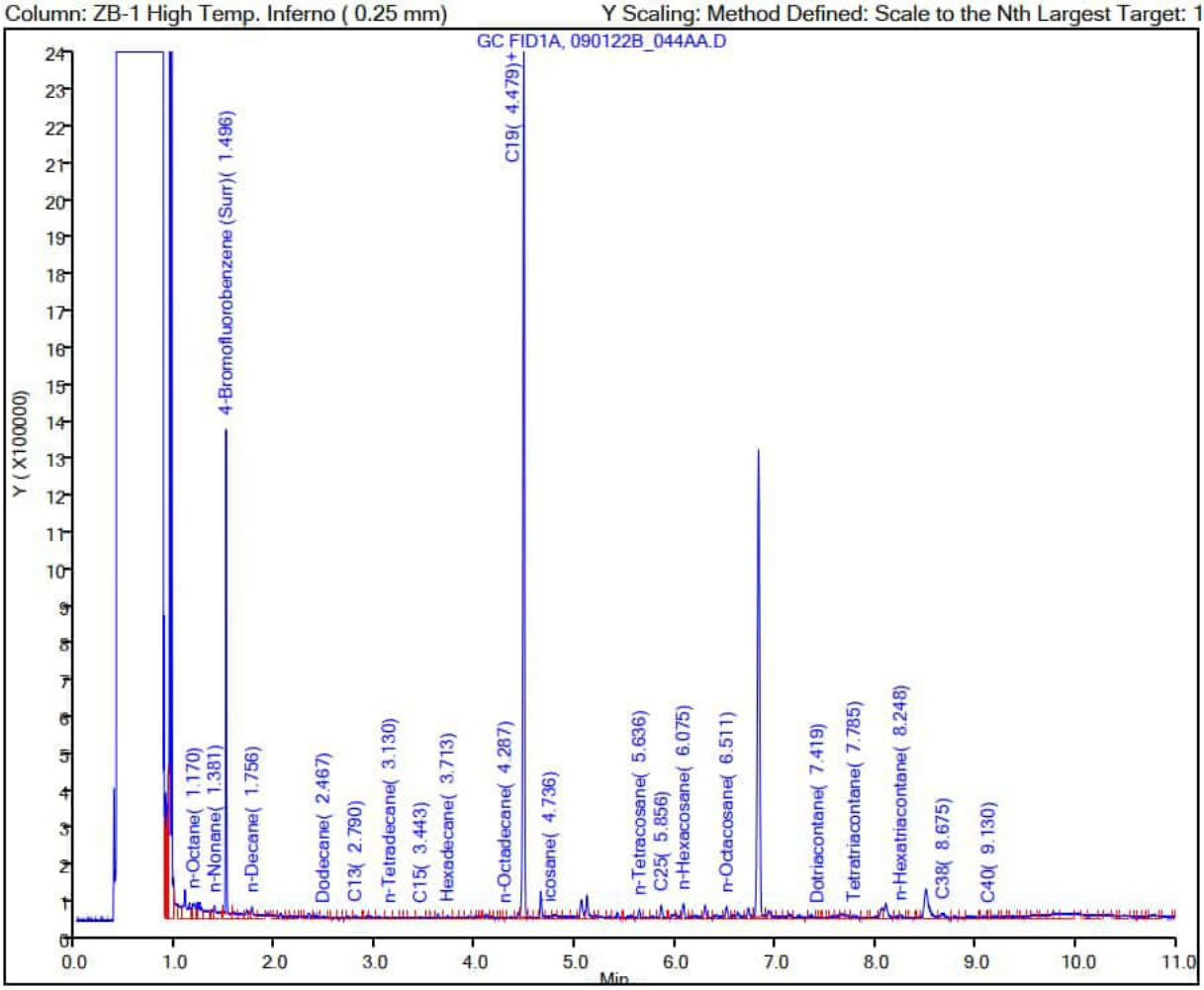
Results (ug/L): TPH-d SGC (C10 to C24) 77 J TPH-o SGC (C24 to C40) <310 U

Report Date: 02-Sep-2022 22:48:36 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220901-84631.b\090122B_044AA.D				
Injection Date:	02-Sep-2022 14:03:30	Instrument ID:	TAC020		
Lims ID:	580-117247-F-7-B	Lab Sample ID:	580-117247-7		
Client ID:	RHMW03-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	39	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW03 Sample ID: RHMW03-WGN01B-2208WK5 Sample Date: 8/30/2022
Lab: Eurofins Seattle

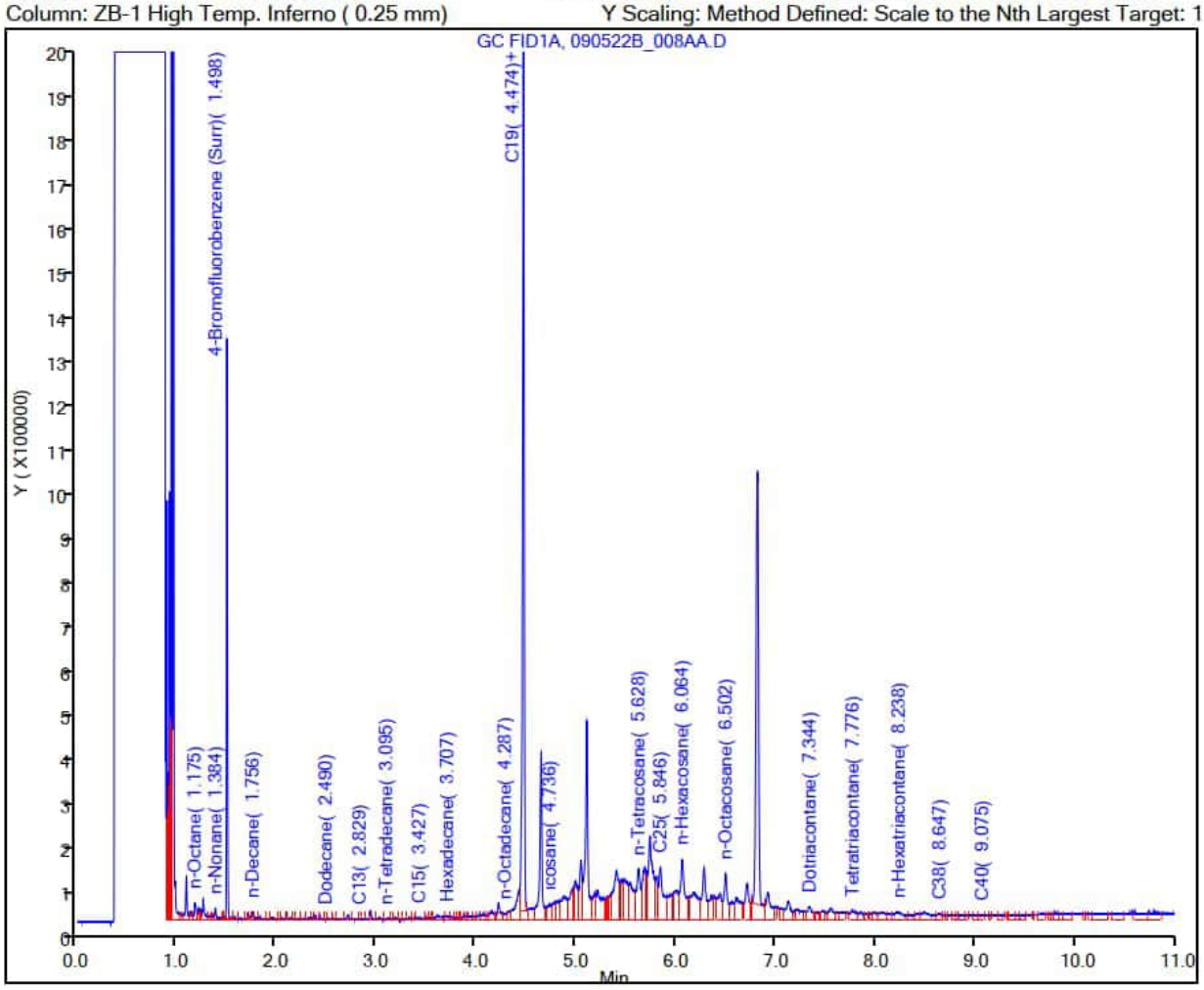
Results (ug/L): TPH-d (C10 to C24) 210 TPH-o (C24 to C40) 280 J

Report Date: 06-Sep-2022 02:19:39 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_008AA.D				
Injection Date:	05-Sep-2022 23:21:30	Instrument ID:	TAC020		
Lims ID:	580-117486-E-9-A	Lab Sample ID:	580-117486-9		
Client ID:	RHWMW03-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



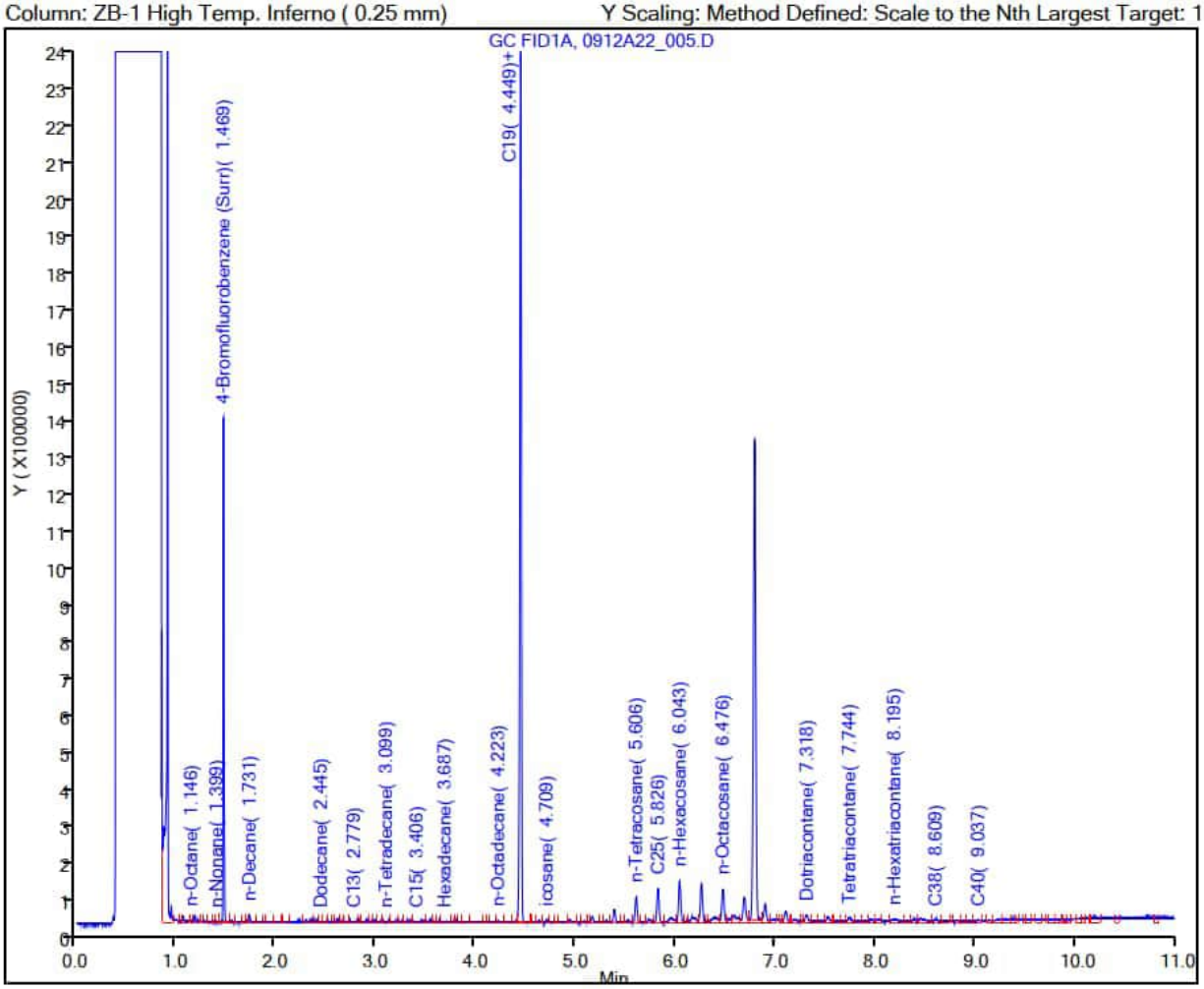
Results (ug/L): TPH-d SGC (C10 to C24) <100 U TPH-o SGC (C24 to C40) <300 U Q

Report Date: 12-Sep-2022 22:01:08 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_005.D				
Injection Date:	12-Sep-2022 18:39:30	Instrument ID:	TAC020		
Lims ID:	580-117486-E-9-B	Lab Sample ID:	580-117486-9		
Client ID:	RHWMW03-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW03 Sample ID: RHMW03-WGN01B-2209WK3 Sample Date: 9/20/2022
Lab: Eurofins Seattle

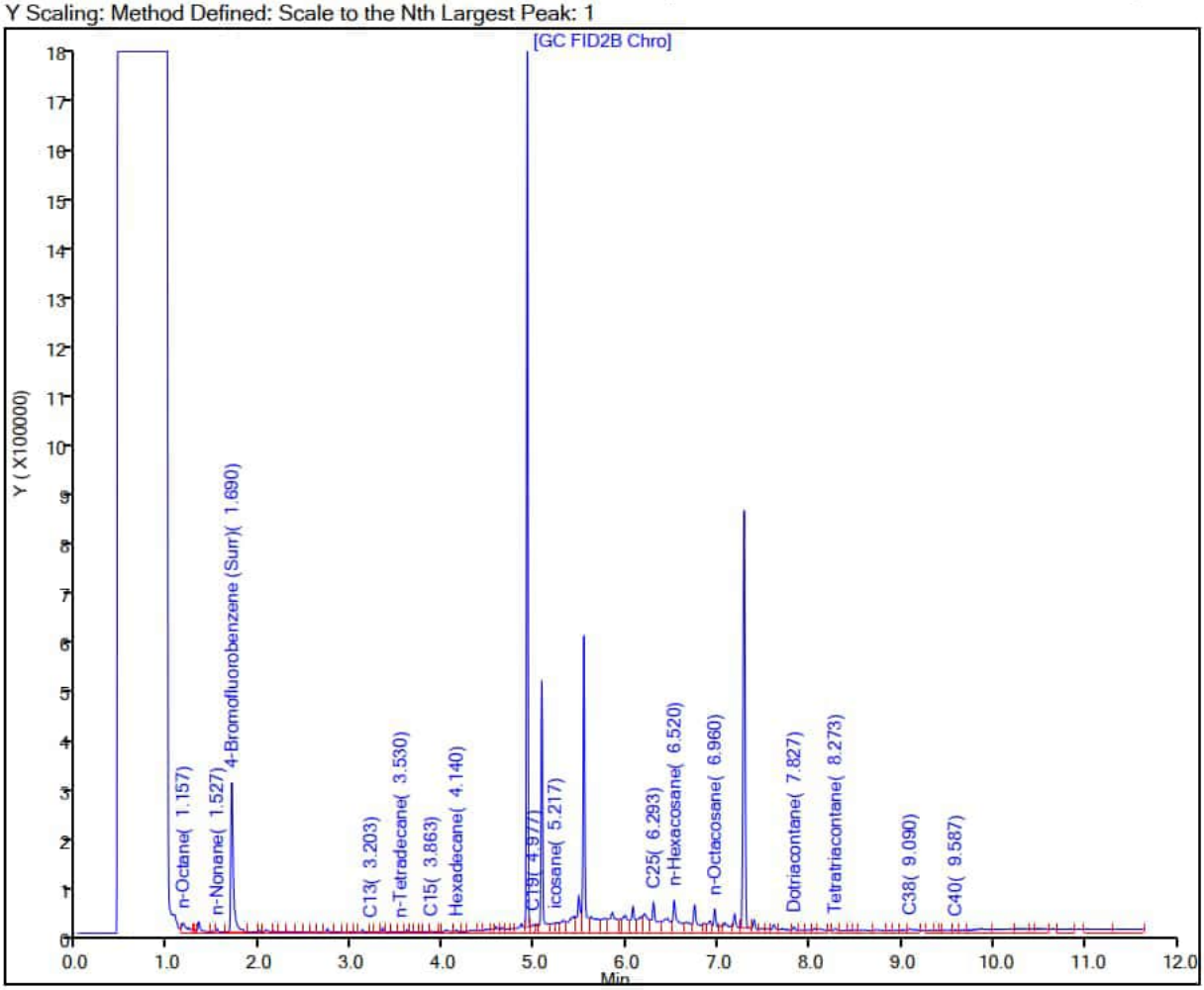
Results (ug/L): TPH-d (C10 to C24) 180 TPH-o (C24 to C40) 180 J

Report Date: 27-Sep-2022 18:26:57 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A015.D				
Injection Date:	27-Sep-2022 17:59:45	Instrument ID:	TAC129_R		
Lims ID:	580-118153-D-5-A	Lab Sample ID:	580-118153-5		
Client ID:	RHMW03-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



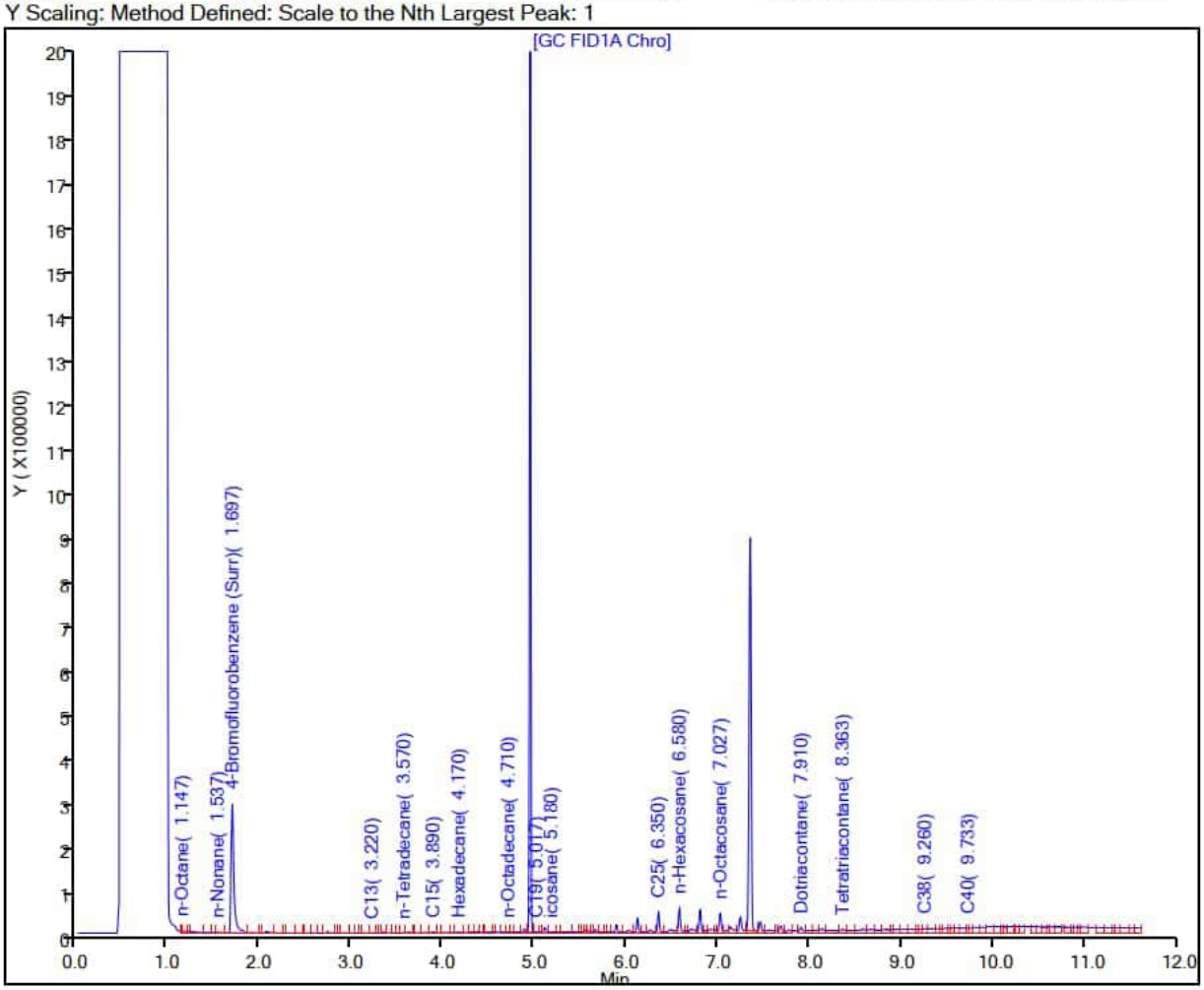
Results (ug/L): TPH-d SGC (C10 to C24) <100 U TPH-o SGC (C24 to C40) <310 U

Report Date: 29-Sep-2022 14:43:55 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220928-85071.b\092822A014.D				
Injection Date:	28-Sep-2022 19:29:26	Instrument ID:	TAC129		
Lims ID:	580-118153-D-5-B	Lab Sample ID:	580-118153-5		
Client ID:	RHMW03-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: RHMW03 Sample ID: RHMW03-WGN01B-2209WK4 Sample Date: 9/27/2022
Lab: Eurofins Seattle

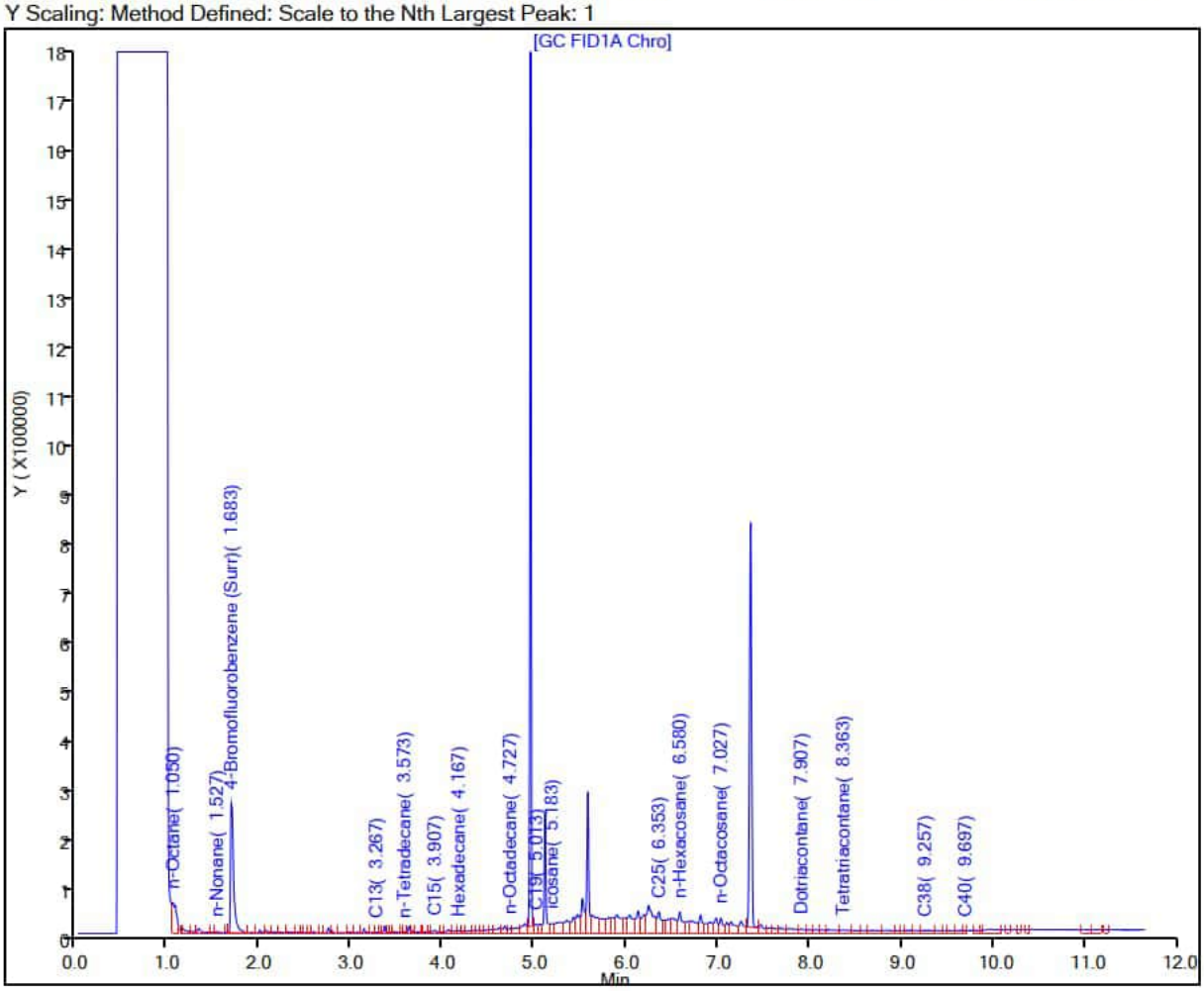
Results (ug/L): TPH-d (C10 to C24) 130 TPH-o (C24 to C40) <300 U

Report Date: 04-Oct-2022 12:31:43 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221003-85158.b\091522A020.D				
Injection Date:	03-Oct-2022 20:35:58	Instrument ID:	TAC129		
Lims ID:	580-118344-D-15-A	Lab Sample ID:	580-118344-15		
Client ID:	RHMW03-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



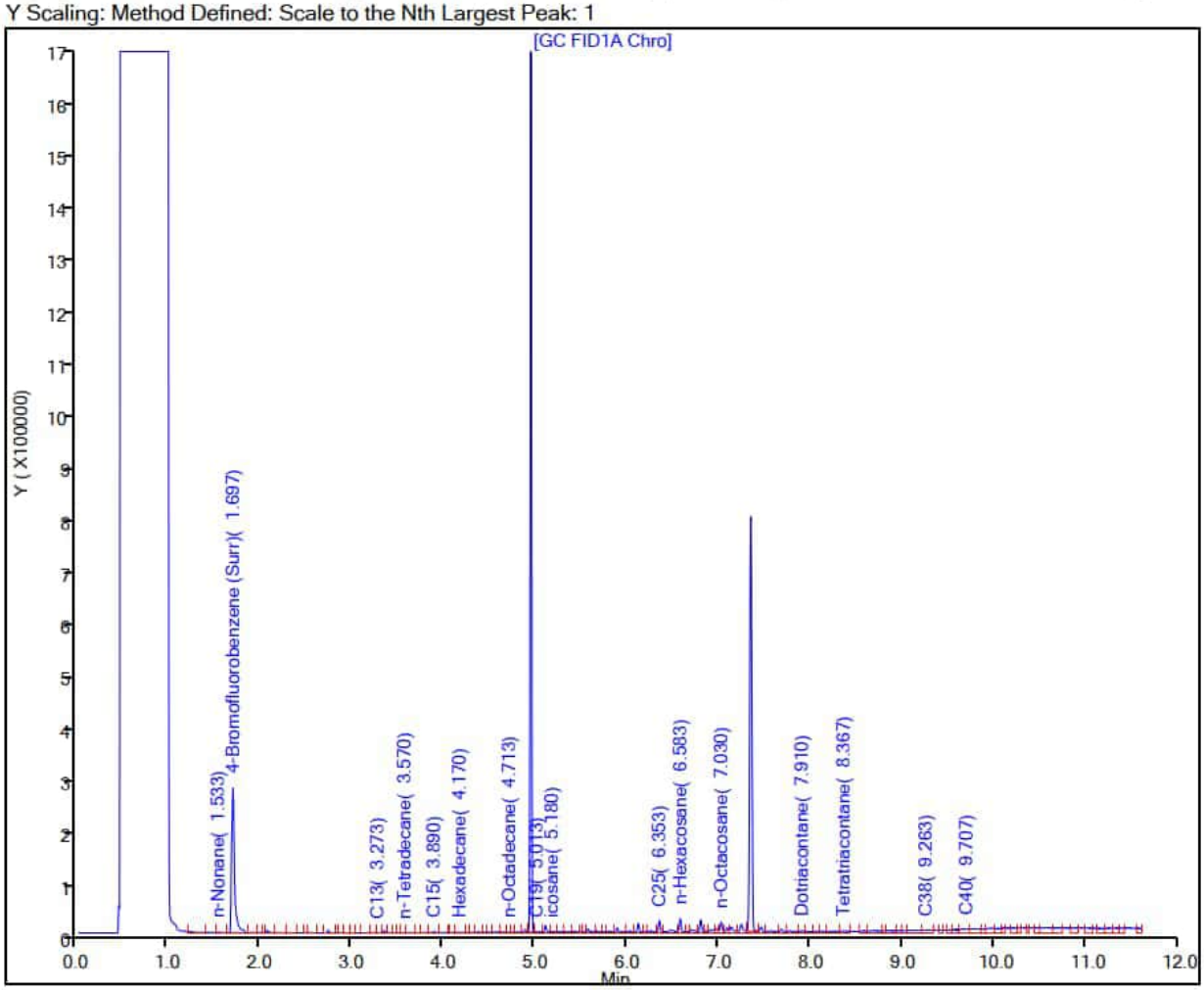
Results (ug/L): TPH-d SGC (C10 to C24) <100 U TPH-o SGC (C24 to C40) <300 U

Report Date: 05-Oct-2022 12:39:29 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\091522A018.D				
Injection Date:	04-Oct-2022 18:34:40	Instrument ID:	TAC129		
Lims ID:	580-118344-D-15-B	Lab Sample ID:	580-118344-15		
Client ID:	RHMW03-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: RHMW04 Sample ID: RHMW04-WGFD01B-2208WK2 Sample Date: 08/10/2022
Lab: Eurofins Seattle

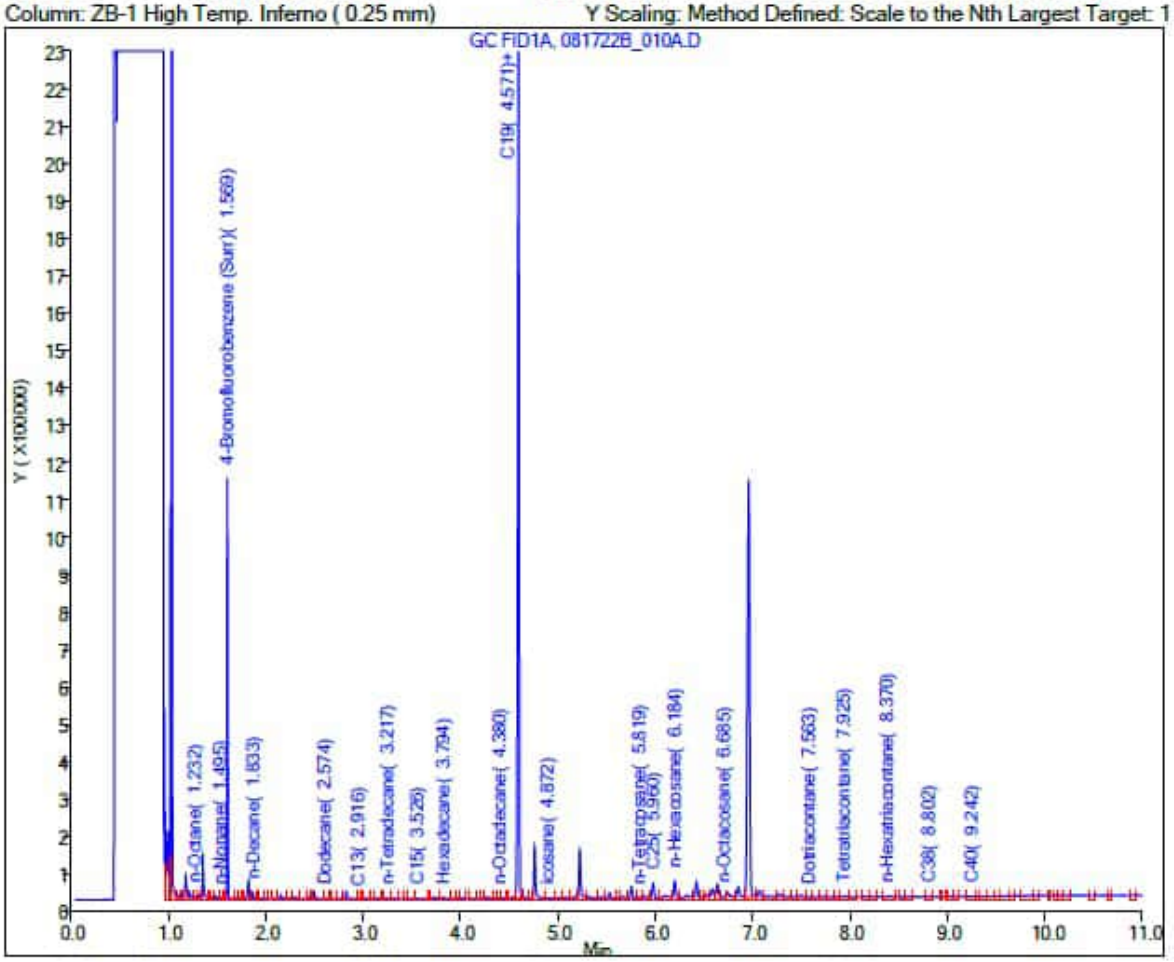
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 18-Aug-2022 11:45:58 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220817-84355.b\081722B_010A.D				
Injection Date:	18-Aug-2022 00:01:30	Instrument ID:	TAC020		
Lims ID:	580-116857-A-7-A	Lab Sample ID:	580-116857-7		
Client ID:	RHMW04-WGFD01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW04 Sample ID: RHMW04-WGN01B-2208WK2 Sample Date: 08/10/2022
Lab: Eurofins Seattle

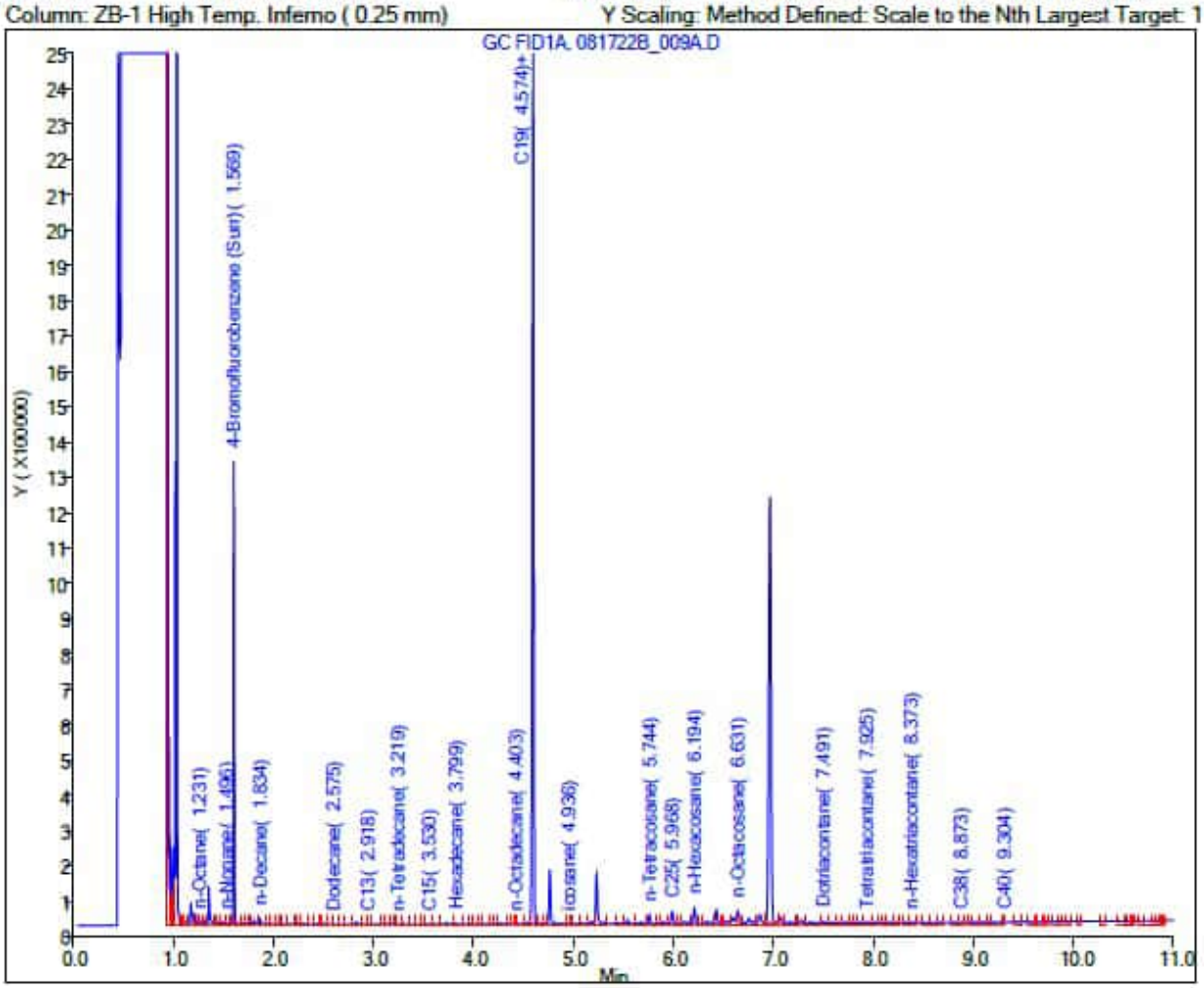
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 18-Aug-2022 11:45:45 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220817-84355.b\081722B_009A.D				
Injection Date:	17-Aug-2022 23:41:30	Instrument ID:	TAC020		
Lims ID:	580-116857-E-5-A	Lab Sample ID:	580-116857-5		
Client ID:	RHMW04-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW04 Sample ID: RHMW04-WGFD01B-2208WK5 Sample Date: 08/31/2022
Lab: Eurofins Seattle

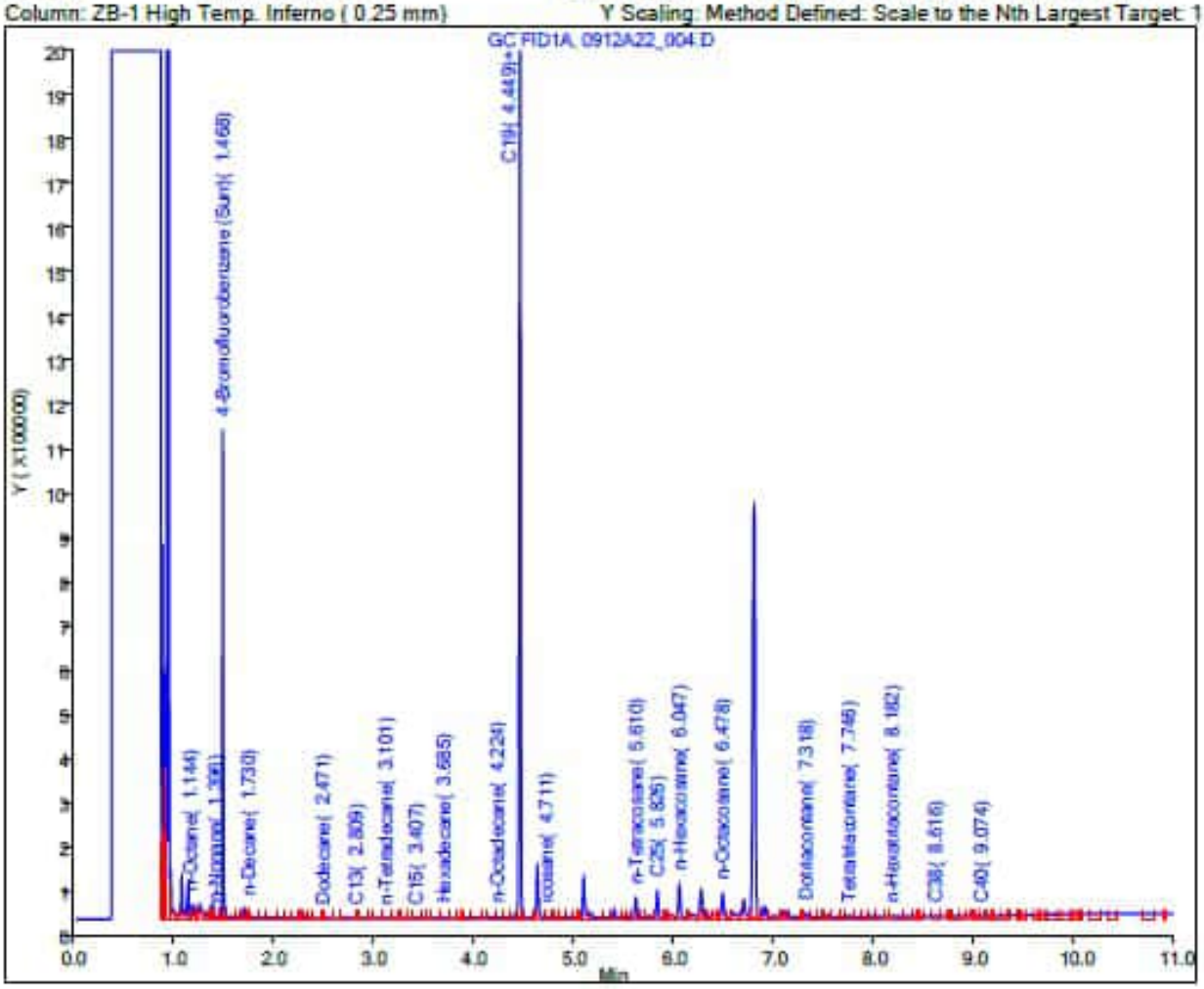
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 13-Sep-2022 11:41:45 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_004.D				
Injection Date:	12-Sep-2022 18:19:30	Instrument ID:	TAC020		
Lims ID:	580-117487-A-11-A	Lab Sample ID:	580-117487-11		
Client ID:	RHWMW04-WGFD01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW04 Sample ID: RHMW04-WGN01B-2208WK5 Sample Date: 08/31/2022
Lab: Eurofins Seattle

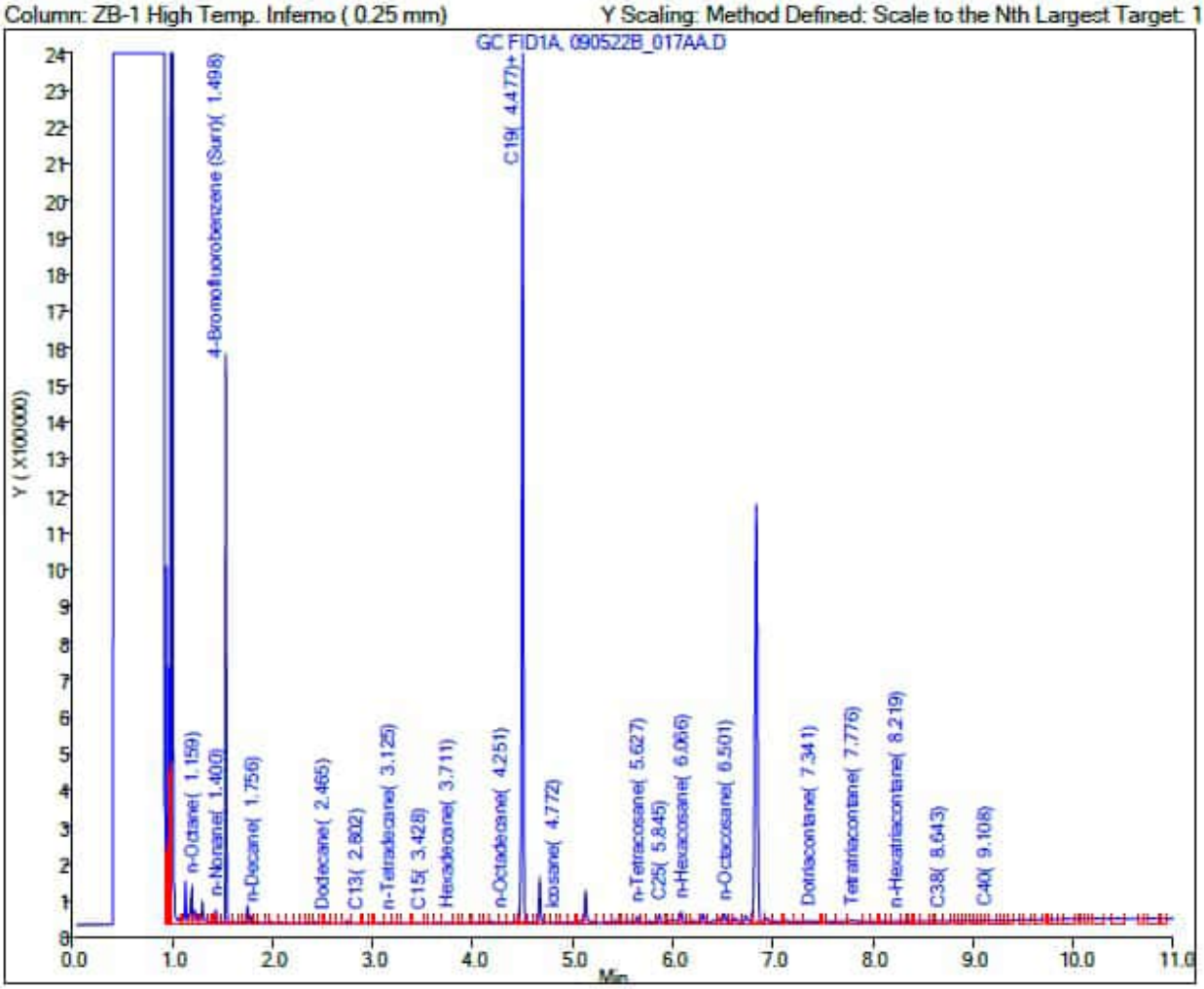
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 12:56:30 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_017AA.D				
Injection Date:	06-Sep-2022 02:23:30	Instrument ID:	TAC020		
Lims ID:	580-117487-F-9-A	Lab Sample ID:	580-117487-9		
Client ID:	RHWMW04-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	16	Worklist Smp#:	77
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW04 Sample ID: RHMW04-WGFD01B-2209WK2 Sample Date: 09/14/2022
Lab: Eurofins Seattle

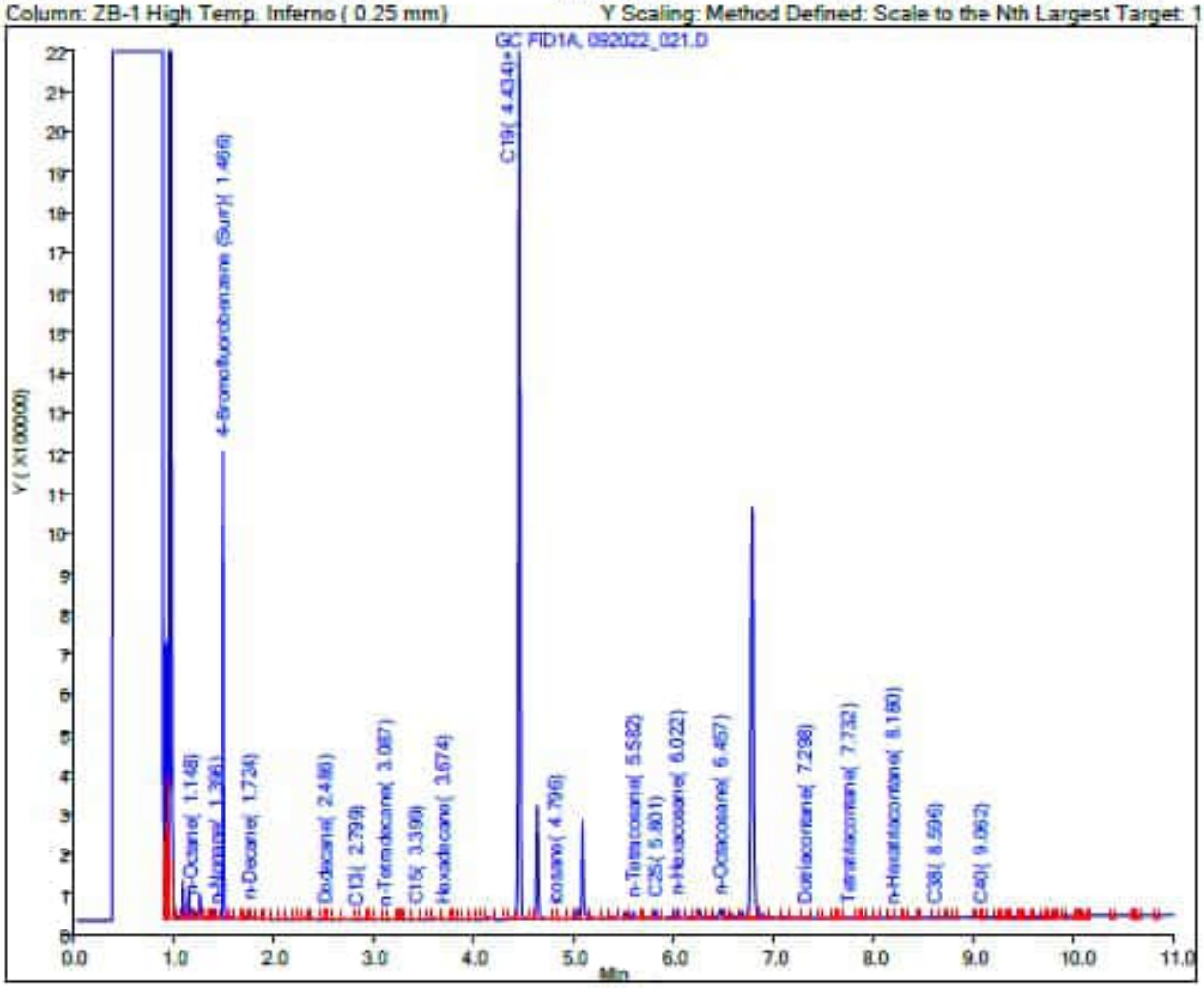
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 21-Sep-2022 13:09:37 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_021.D				
Injection Date:	21-Sep-2022 00:41:30	Instrument ID:	TAC020		
Lims ID:	580-117905-A-13-A	Lab Sample ID:	580-117905-13		
Client ID:	RHMW04-WGFD01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	20	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW04 Sample ID: RHMW04-WGN01B-2209WK2 Sample Date: 09/14/2022

Lab: Eurofins Seattle

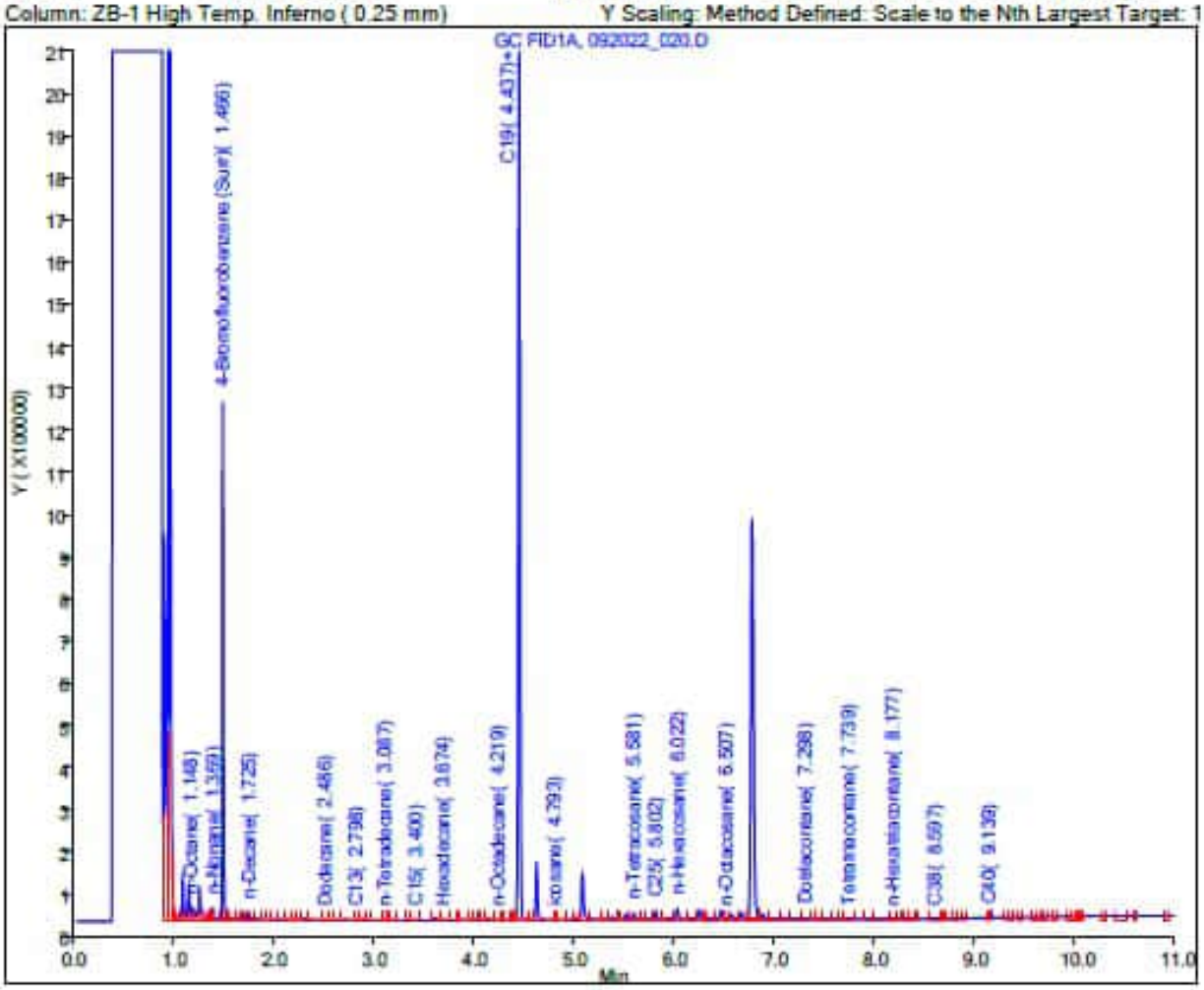
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 21-Sep-2022 13:09:30 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_020.D				
Injection Date:	21-Sep-2022 00:20:30	Instrument ID:	TAC020		
Lims ID:	580-117905-E-11-A	Lab Sample ID:	580-117905-11		
Client ID:	RHMW04-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	19	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW04 Sample ID: RHMW04-WGFD01B-2209WK3 Sample Date: 09/23/2022
Lab: Eurofins Seattle

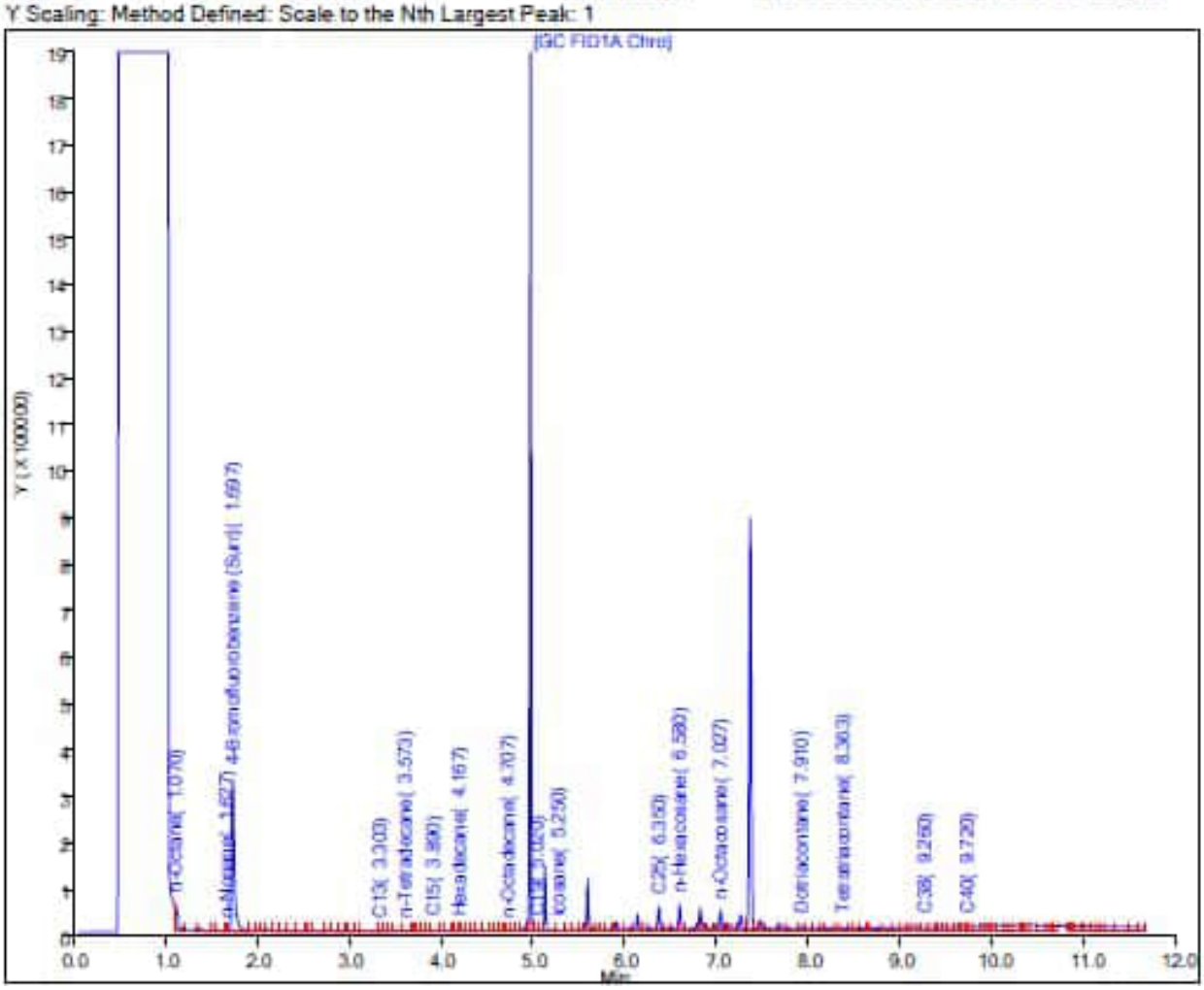
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 30-Sep-2022 15:19:06 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220929-85106.b\092922A014.D				
Injection Date:	29-Sep-2022 21:02:34	Instrument ID:	TAC129		
Lims ID:	580-118258-D-5-A	Lab Sample ID:	580-118258-5		
Client ID:	RHMW04-WGFD01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW04 Sample ID: RHMW04-WGN01B-2209WK3 Sample Date: 09/23/2022
Lab: Eurofins Seattle

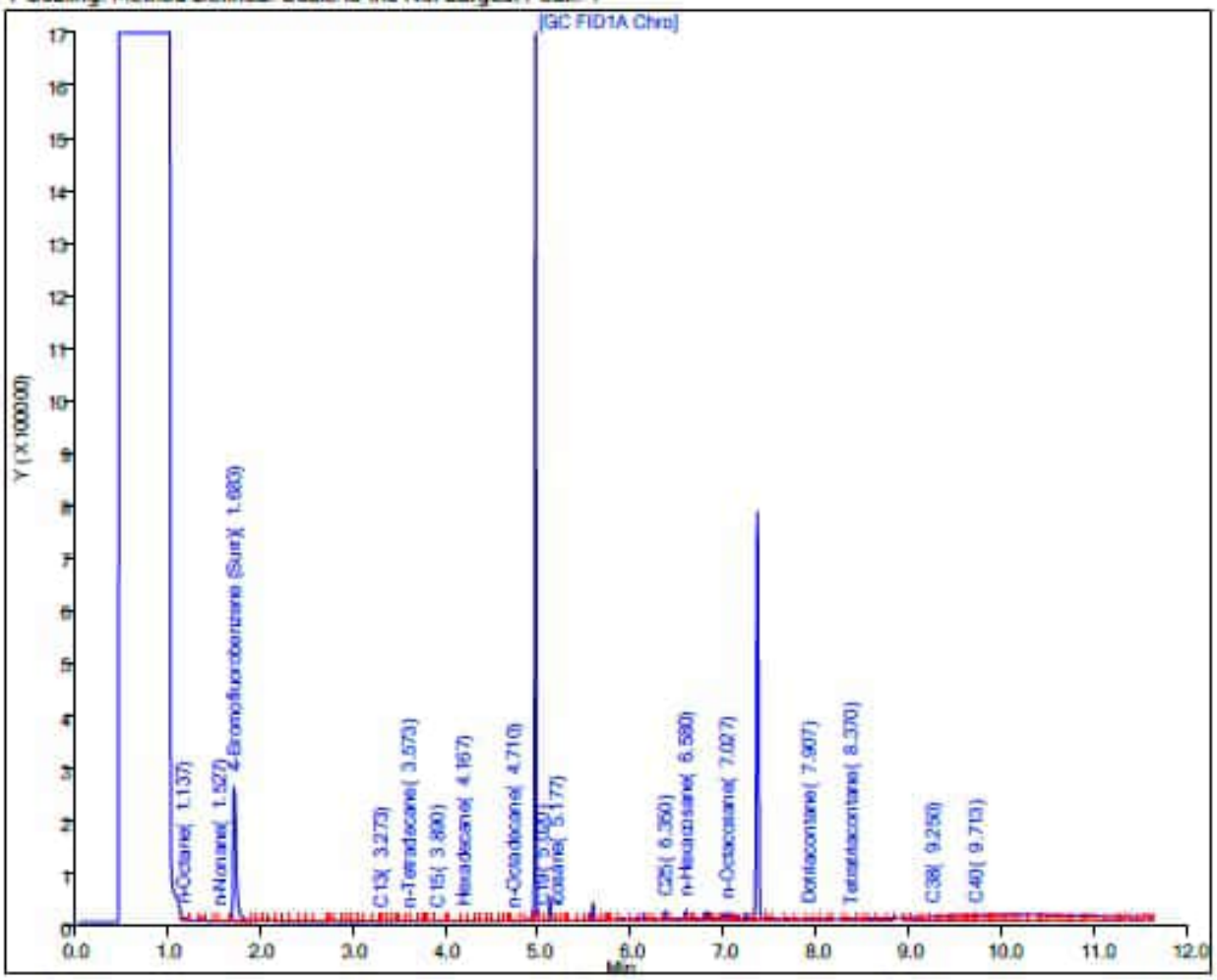
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 30-Sep-2022 15:19:27 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220929-85106.b\092922A024.D				
Injection Date:	29-Sep-2022 22:37:07	Instrument ID:	TAC129		
Lims ID:	580-118258-C-3-A	Lab Sample ID:	580-118258-3		
Client ID:	RHMW04-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW04 Sample ID: RHMW04-WGFD01B-2209WK4 Sample Date: 09/28/2022
Lab: Eurofins Seattle

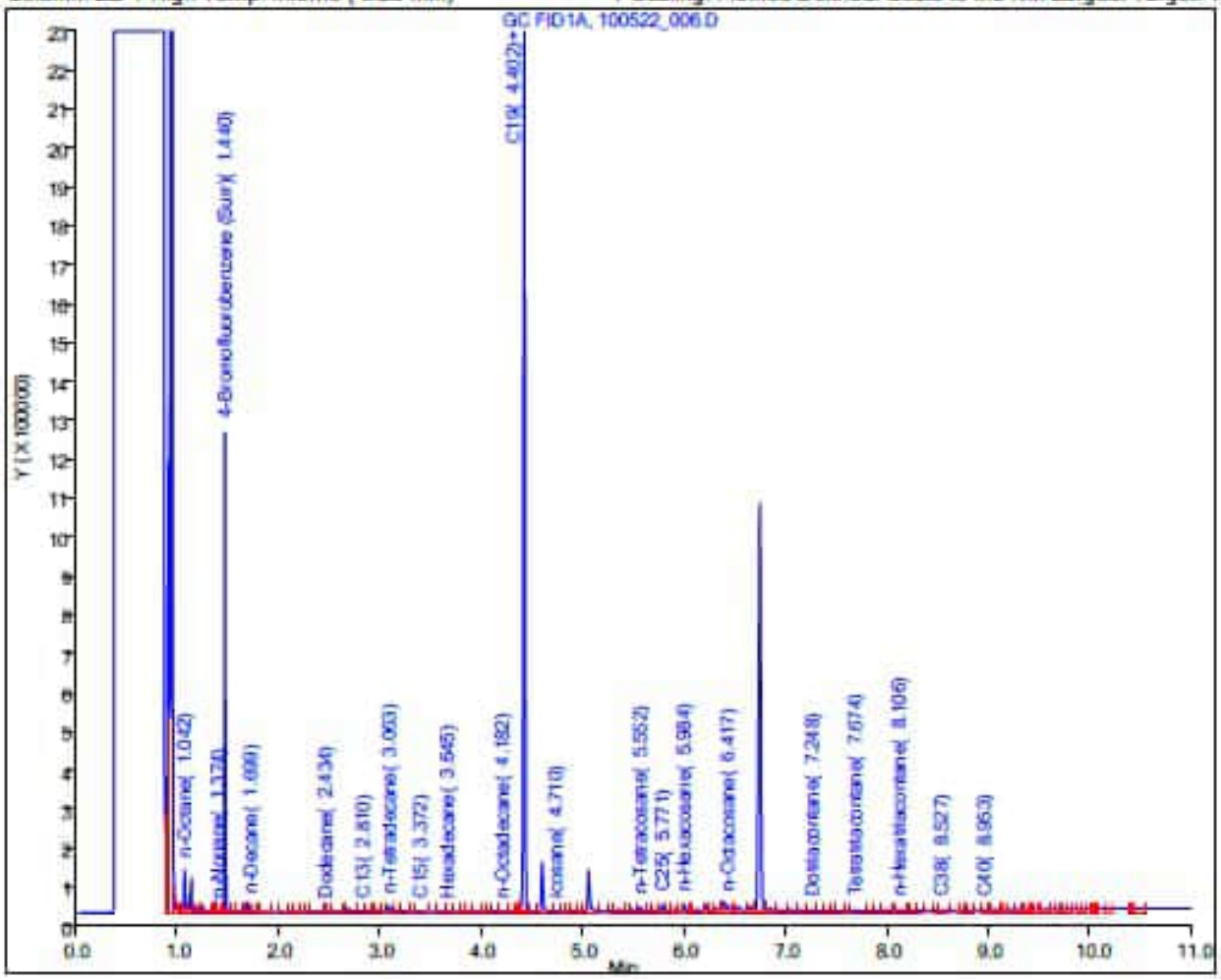
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 05-Oct-2022 18:54:24 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221005-85205.b\100522_006.D				
Injection Date:	05-Oct-2022 16:11:30	Instrument ID:	TAC020		
Lims ID:	580-118384-C-3-A	Lab Sample ID:	580-118384-3		
Client ID:	RHMW04-WGFD01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW04 Sample ID: RHMW04-WGN01B-2209WK4 Sample Date: 09/28/2022
Lab: Eurofins Seattle

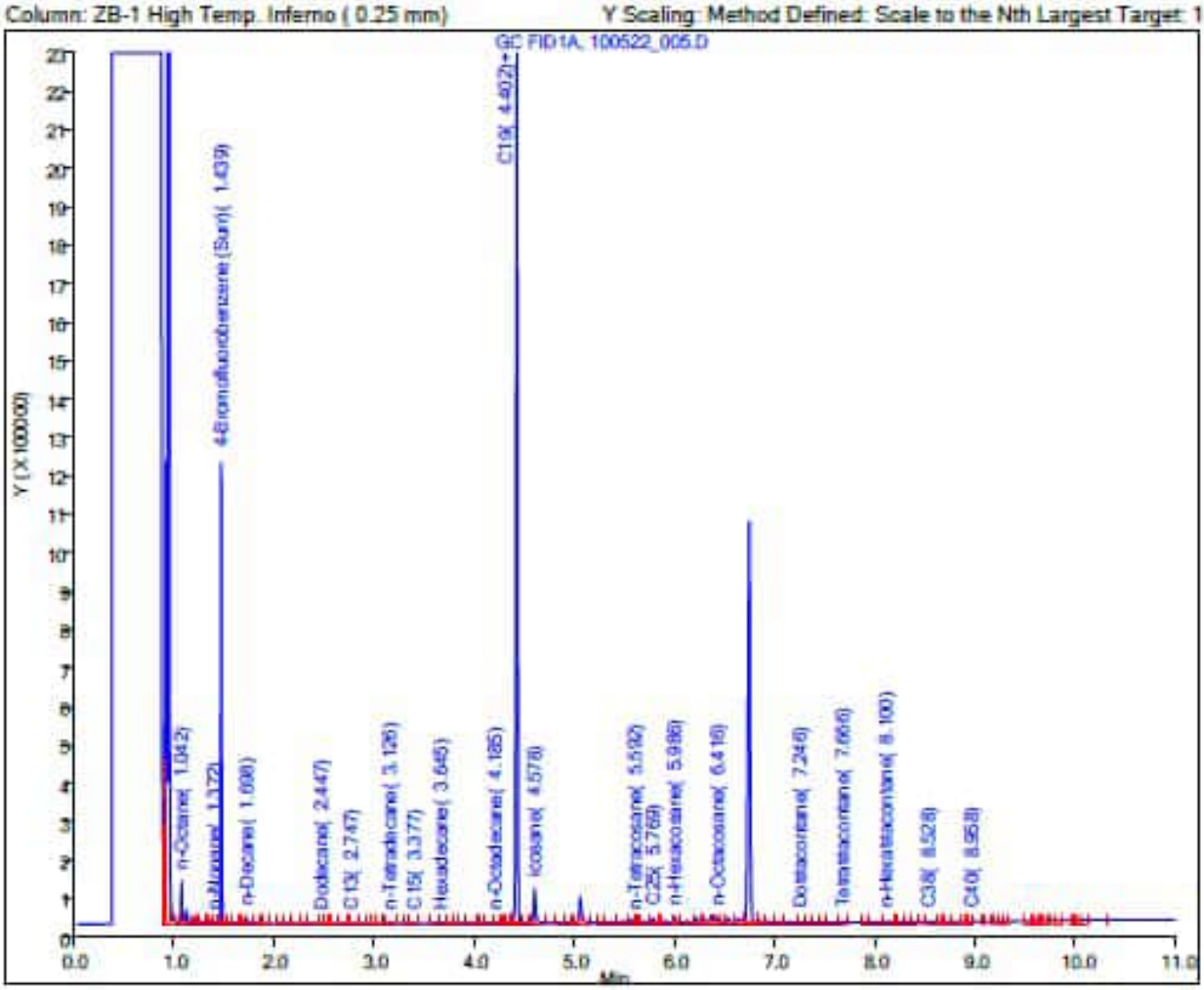
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 05-Oct-2022 18:54:20 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221005-85205.b\100522_005.D				
Injection Date:	05-Oct-2022 15:51:30	Instrument ID:	TAC020		
Lims ID:	580-118384-C-1-A	Lab Sample ID:	580-118384-1		
Client ID:	RHMW04-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW05 Sample ID: RHMW05-WGN01B-2208WK4 Sample Date: 08/23/2022
Lab: Eurofins Seattle

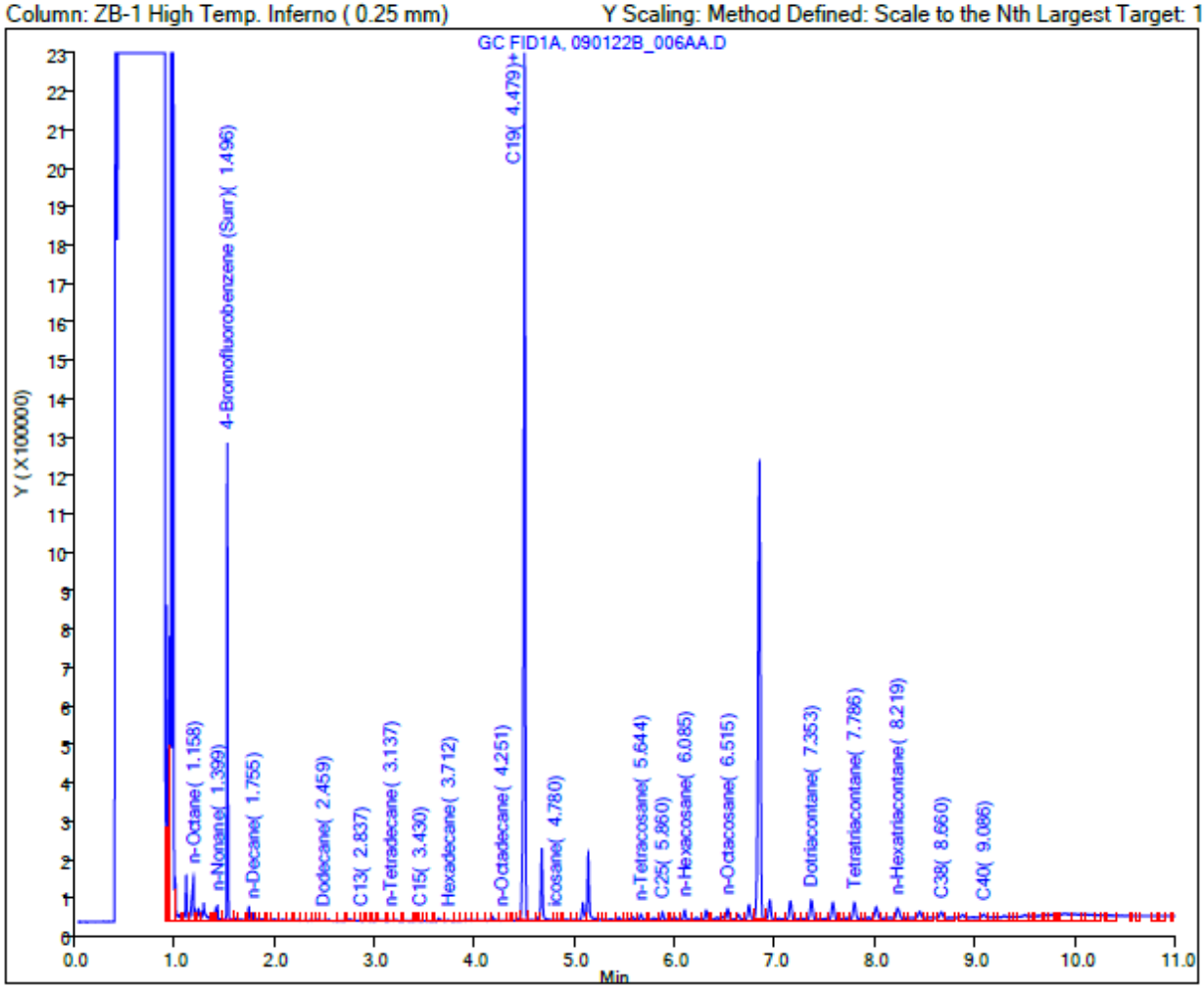
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 02-Sep-2022 22:48:39 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220901-84631.b\090122B_006AA.D				
Injection Date:	01-Sep-2022 23:22:30	Instrument ID:	TAC020		
Lims ID:	580-117247-F-5-A	Lab Sample ID:	580-117247-5		
Client ID:	RHMW05-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW05 Sample ID: RHMW05-WGN01B-2208WK5 Sample Date: 08/30/2022
Lab: Eurofins Seattle

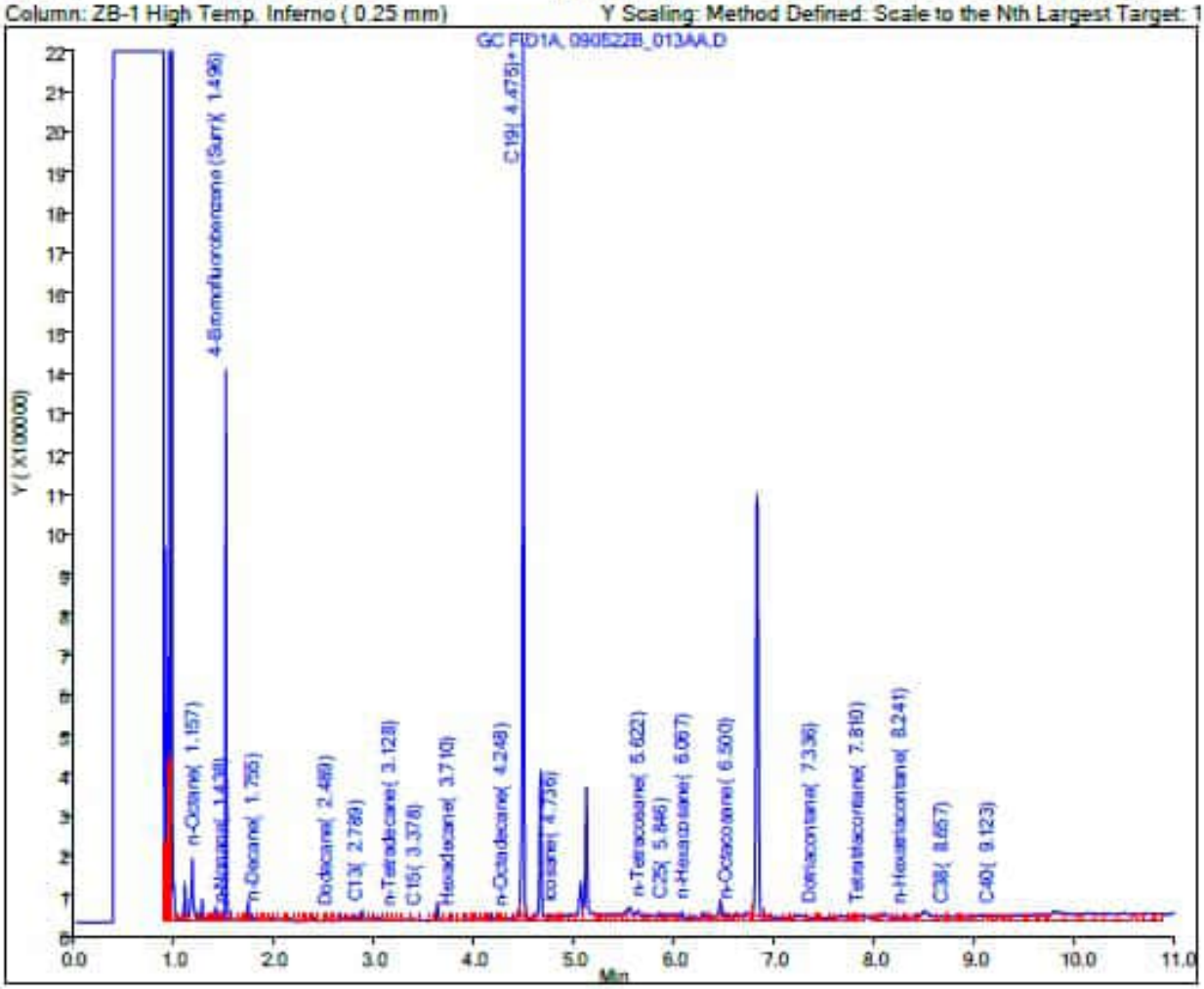
Results (ug/L): TPH-d (C10 to C24) 99 J TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 12:55:16 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_013AA.D				
Injection Date:	06-Sep-2022 01:02:30	Instrument ID:	TAC020		
Lims ID:	580-117486-E-7-A	Lab Sample ID:	580-117486-7		
Client ID:	RHWMW05-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	12	Worklist Smp#:	73
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



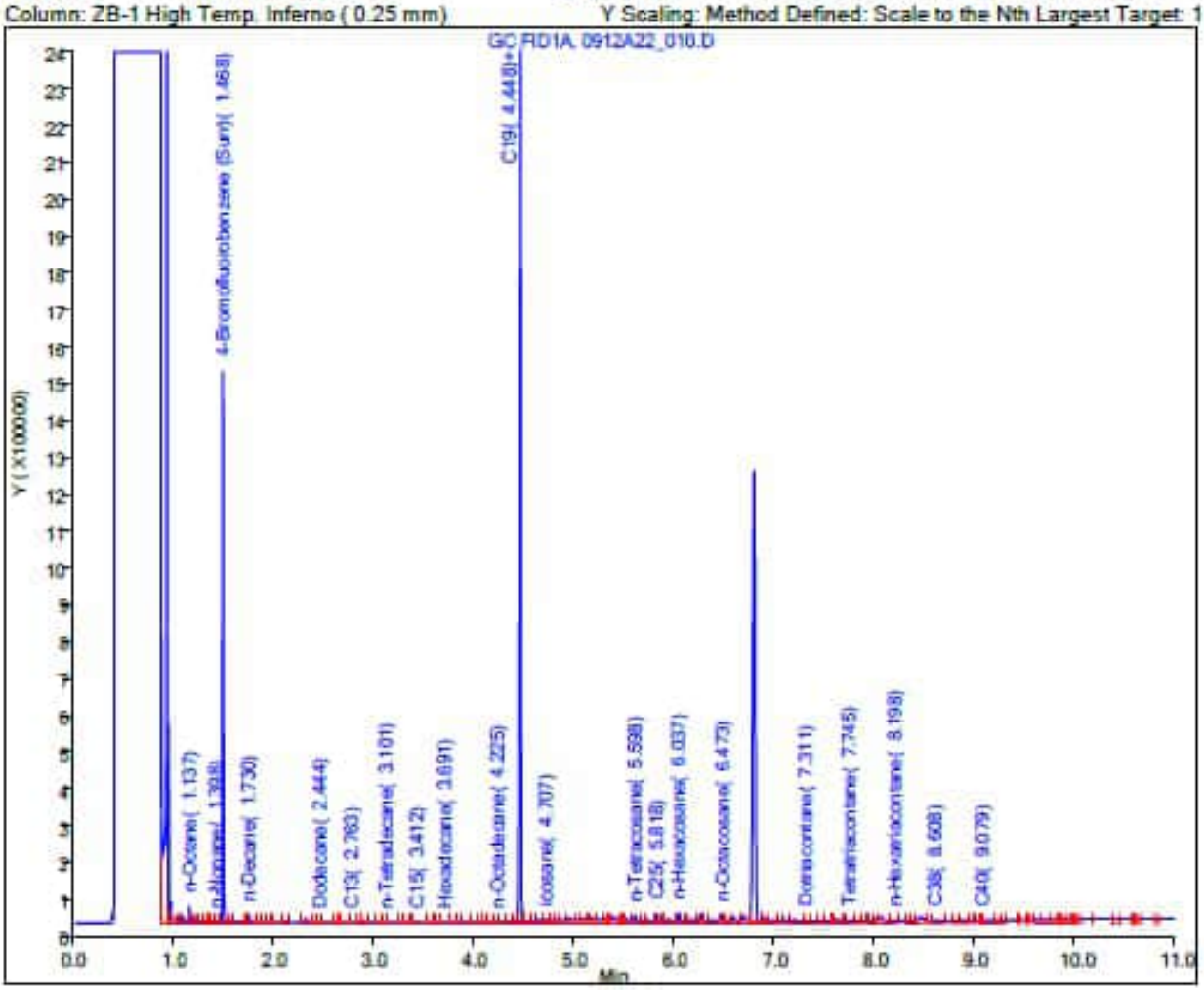
Results (ug/L): TPH-d SGC (C10 to C24) <100 U TPH-o SGC (C24 to C40) <310 U

Report Date: 12-Sep-2022 22:00:12 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_010.D				
Injection Date:	12-Sep-2022 20:19:30	Instrument ID:	TAC020		
Lims ID:	580-117486-E-7-B	Lab Sample ID:	580-117486-7		
Client ID:	RHWMW05-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW05 Sample ID: RHMW05-WGN01B-2209WK3 Sample Date: 09/20/2022
Lab: Eurofins Seattle

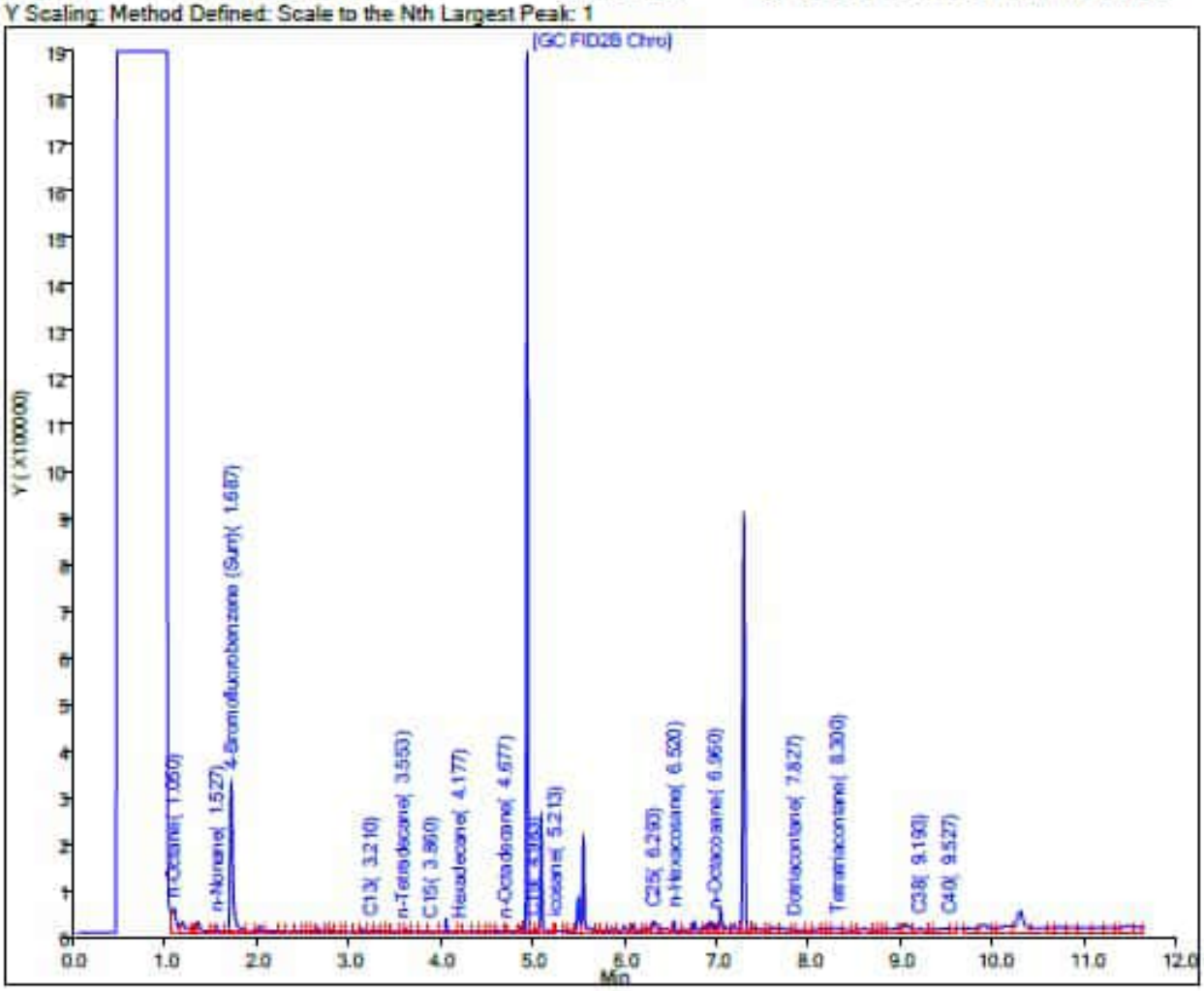
Results (ug/L): TPH-d (C10 to C24) 66 J TPH-o (C24 to C40) <300 U

Report Date: 28-Sep-2022 14:37:36 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A017.D				
Injection Date:	27-Sep-2022 18:18:58	Instrument ID:	TAC129_R		
Lims ID:	580-118153-D-9-A	Lab Sample ID:	580-118153-9		
Client ID:	RHMW05-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



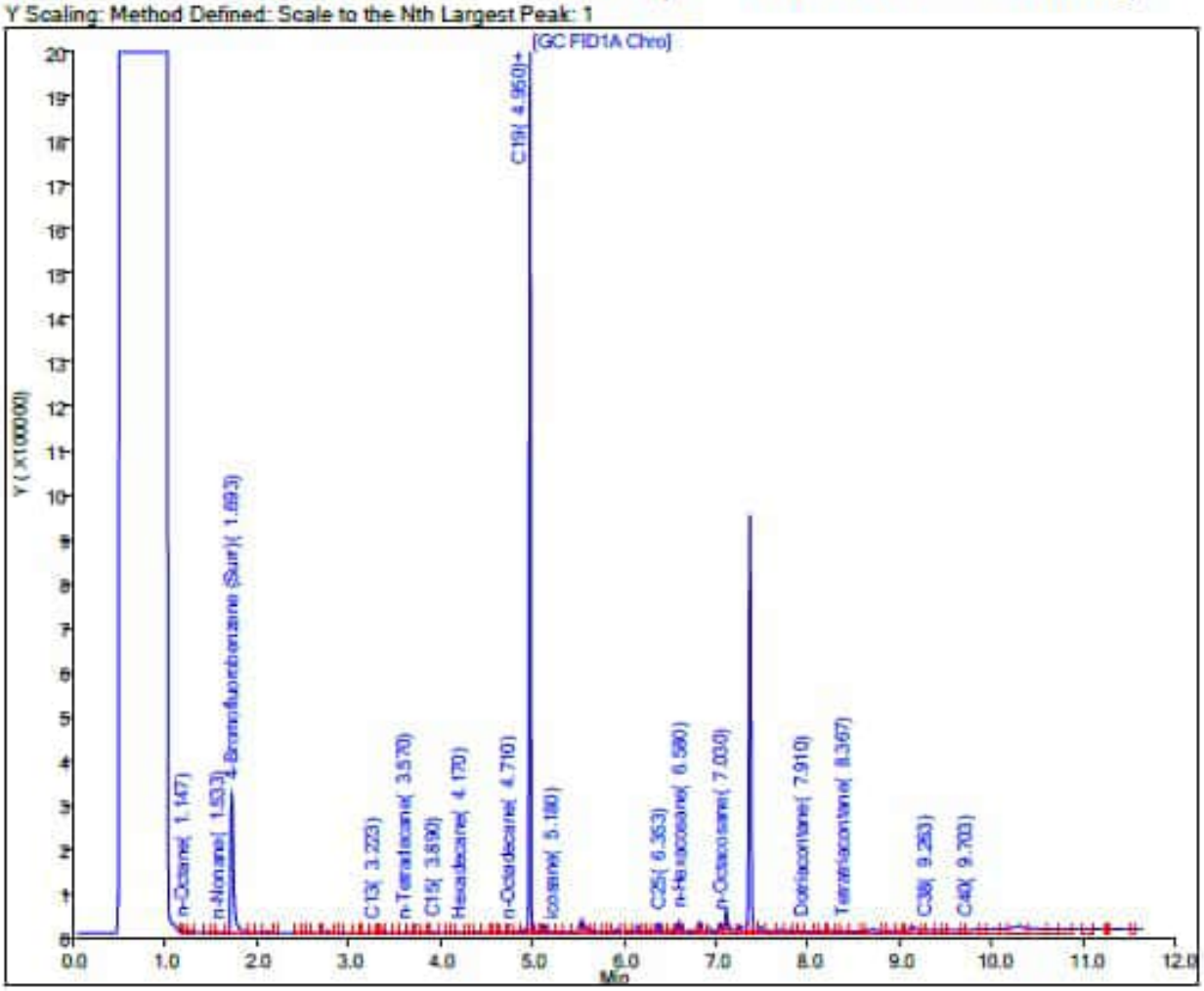
Results (ug/L): TPH-d SGC (C10 to C24) <100 U TPH-o SGC (C24 to C40) <300 U

Report Date: 29-Sep-2022 14:43:59 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220928-85071.b\092822A016.D				
Injection Date:	28-Sep-2022 19:48:25	Instrument ID:	TAC129		
Lims ID:	580-118153-D-9-B	Lab Sample ID:	580-118153-9		
Client ID:	RHMW05-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: RHMW05 Sample ID: RHMW05-WGN01B-2209WK4 Sample Date: 09/27/2022
Lab: Eurofins Seattle

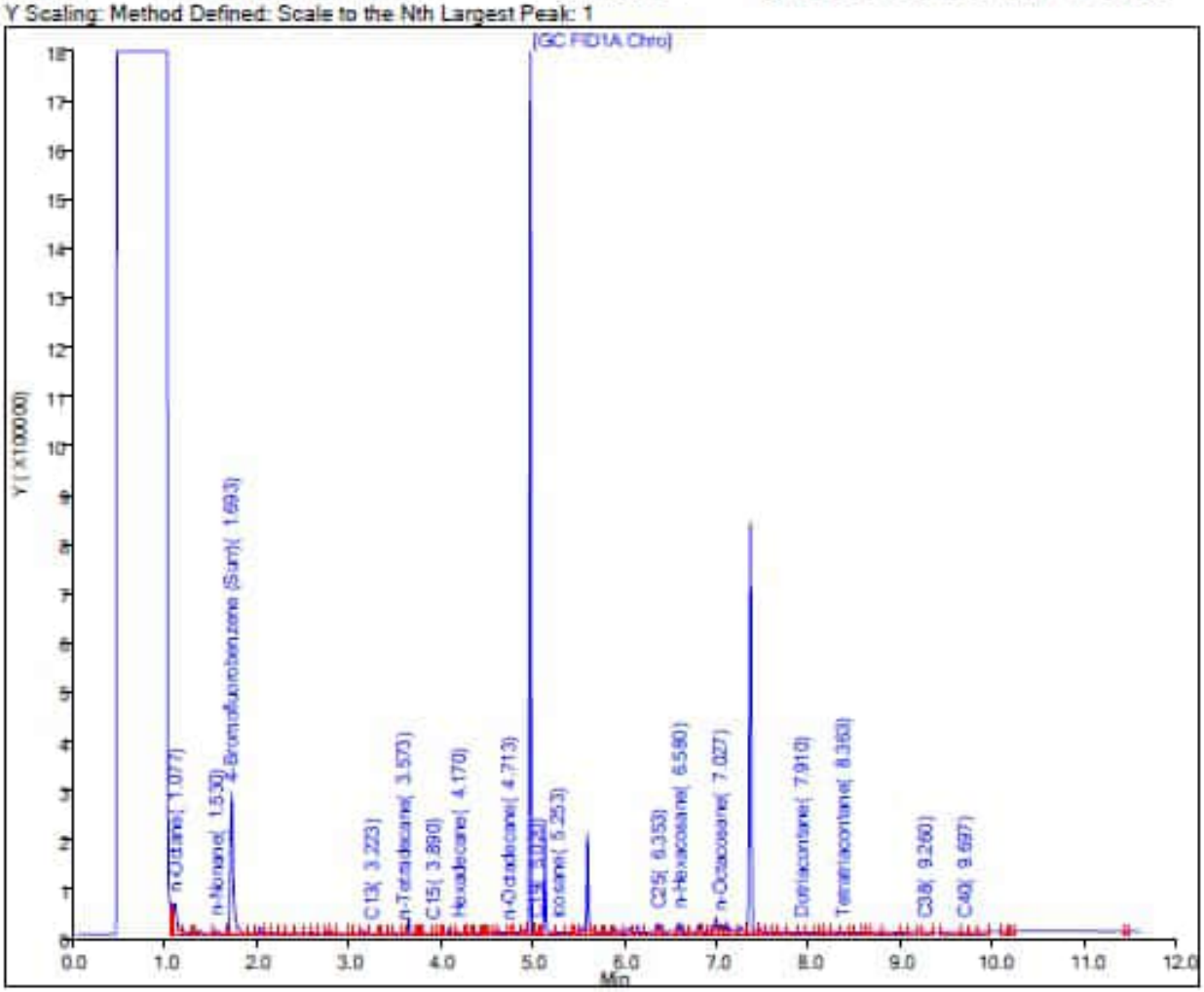
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 04-Oct-2022 12:31:36 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221003-85158.b\091522A018.D				
Injection Date:	03-Oct-2022 20:17:00	Instrument ID:	TAC129		
Lims ID:	580-118344-D-13-A	Lab Sample ID:	580-118344-13		
Client ID:	RHMW05-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW06 Sample ID: RHMW06-WGN01B-2208WK2 Sample Date: 08/10/2022
Lab: Eurofins Seattle

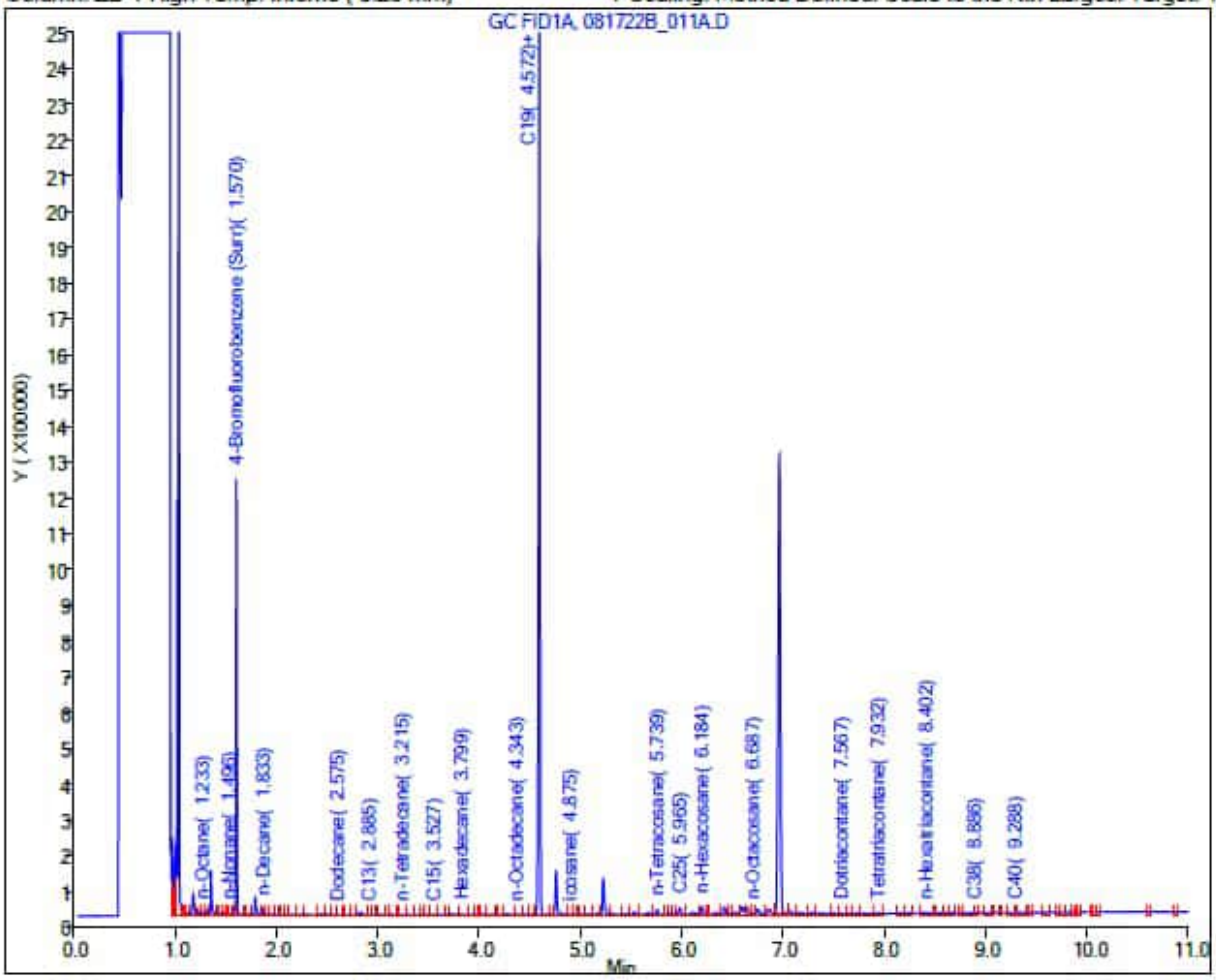
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 18-Aug-2022 11:46:04 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220817-84355.b\081722B_011A.D				
Injection Date:	18-Aug-2022 00:21:30	Instrument ID:	TAC020		
Lims ID:	580-116857-F-8-A	Lab Sample ID:	580-116857-8		
Client ID:	RHMW06-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW06 Sample ID: RHMW06-WGN01B-2208WK5 Sample Date: 08/31/2022
Lab: Eurofins Seattle

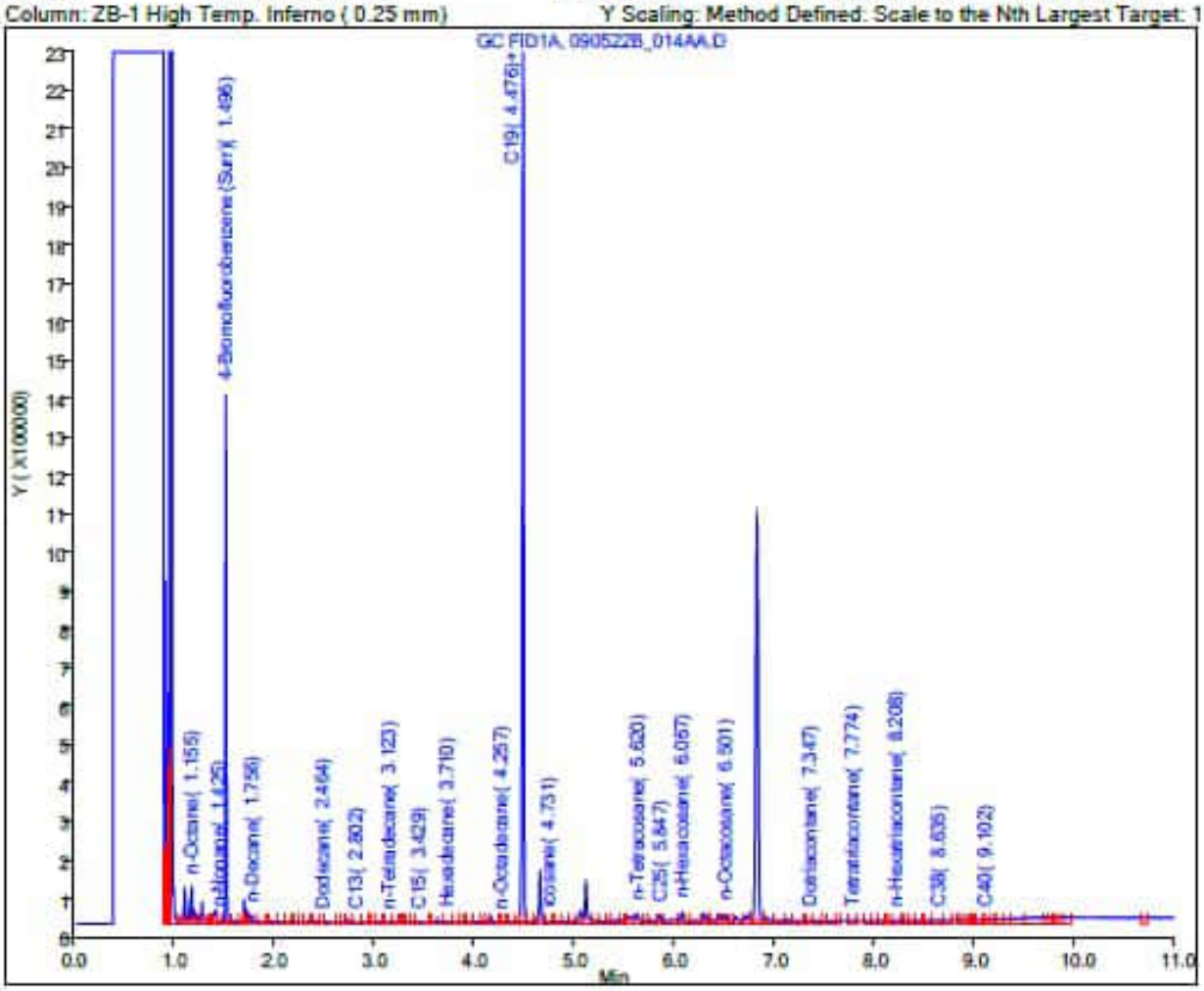
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 12-Sep-2022 12:55:21 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_014AA.D				
Injection Date:	06-Sep-2022 01:22:30	Instrument ID:	TAC020		
Lims ID:	580-117487-E-5-A	Lab Sample ID:	580-117487-5		
Client ID:	RHWMW06-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	74
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW06 Sample ID: RHMW06-WGN01B-2209WK2 Sample Date: 09/14/2022
Lab: Eurofins Seattle

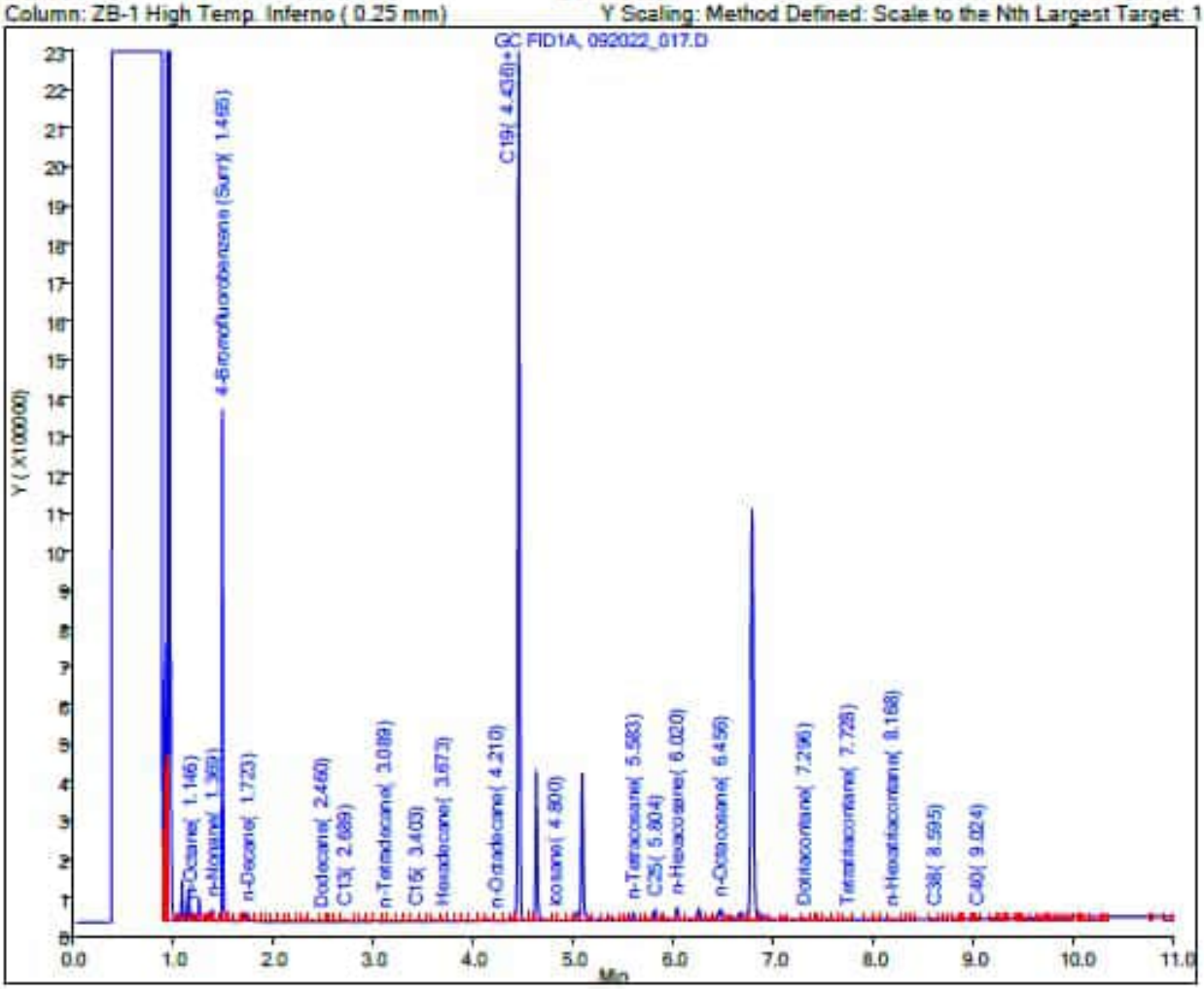
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 21-Sep-2022 13:09:10 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_017.D				
Injection Date:	20-Sep-2022 23:20:30	Instrument ID:	TAC020		
Lims ID:	580-117905-E-5-A	Lab Sample ID:	580-117905-5		
Client ID:	RHMW06-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	16	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW06 Sample ID: RHMW06-WGN01B-2209WK3 Sample Date: 09/23/2022
Lab: Eurofins Seattle

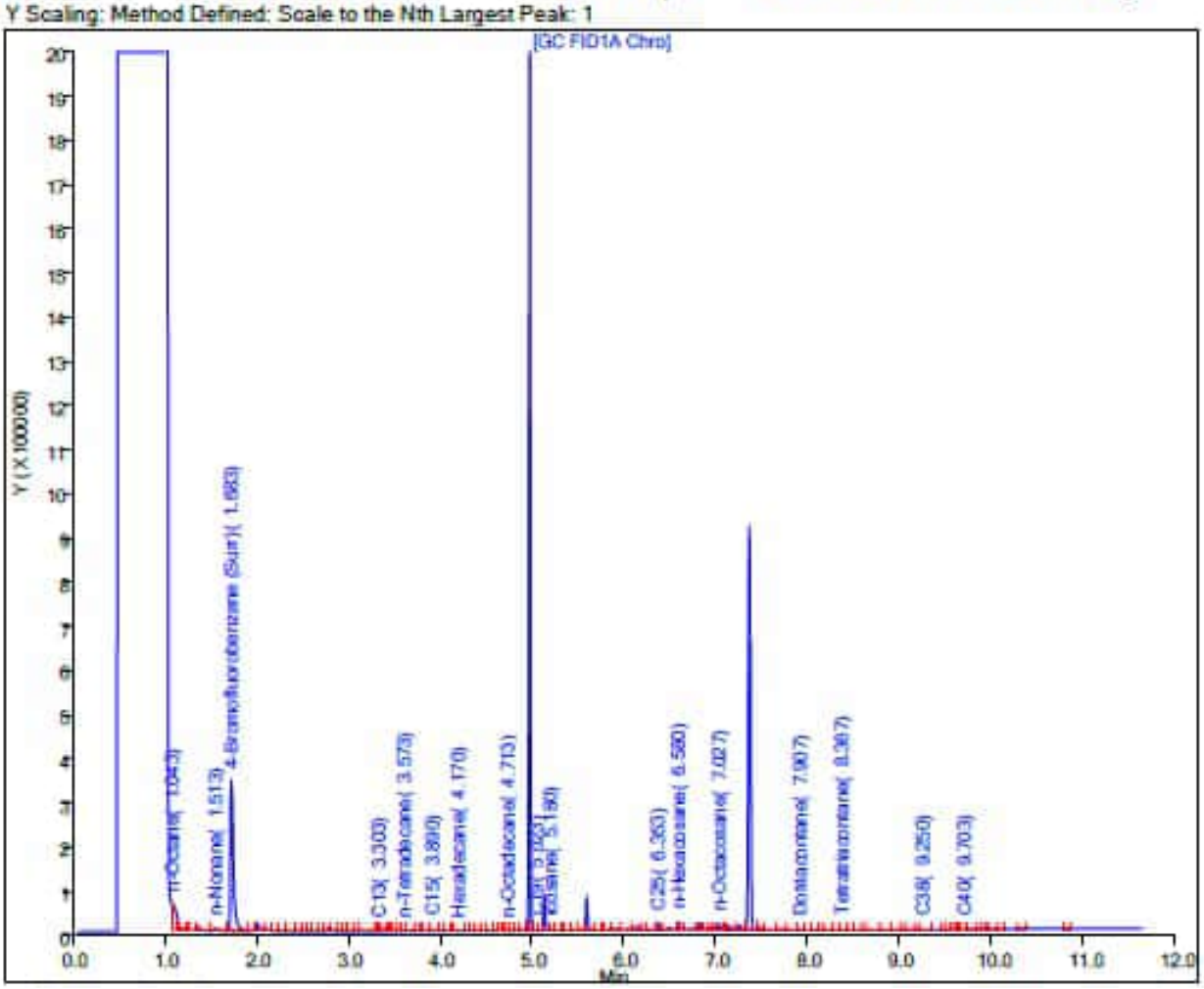
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 30-Sep-2022 15:19:14 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220929-85106.b\092922A018.D				
Injection Date:	29-Sep-2022 21:40:31	Instrument ID:	TAC129		
Lims ID:	580-118258-H-1-A	Lab Sample ID:	580-118258-1		
Client ID:	RHMW06-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW06 Sample ID: RHMW06-WGN01B-2209WK4 Sample Date: 09/28/2022
Lab: Eurofins Seattle

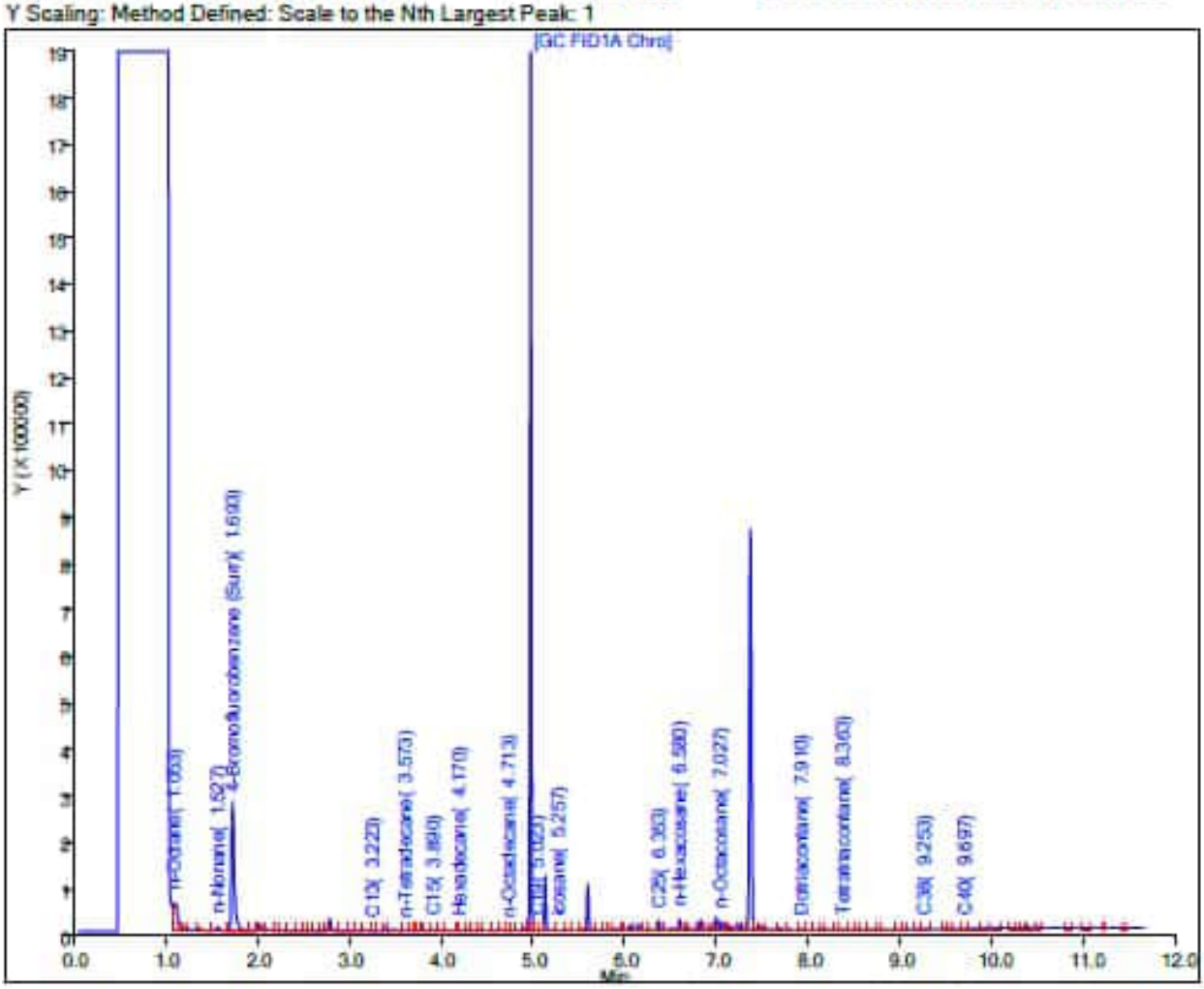
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 05-Oct-2022 12:40:04 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\1004A22A038.D				
Injection Date:	04-Oct-2022 23:53:33	Instrument ID:	TAC129		
Lims ID:	580-118384-D-6-A	Lab Sample ID:	580-118384-6		
Client ID:	RHMW06-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW08 Sample ID: RHMW08-WGN01B-2208WK2 Sample Date: 08/10/2022
Lab: Eurofins Seattle

Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 18-Aug-2022 11:46:16 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220817-84355.b\081722B_012A.D				
Injection Date:	18-Aug-2022 00:42:30	Instrument ID:	TAC020		
Lims ID:	580-116857-F-10-A	Lab Sample ID:	580-116857-10		
Client ID:	RHMW08-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	12	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

No Silica Gel Cleanup performed.

Location: RHMW08 Sample ID: RHMW08-WGN01B-2208WK5 Sample Date: 08/31/2022
Lab: Eurofins Seattle

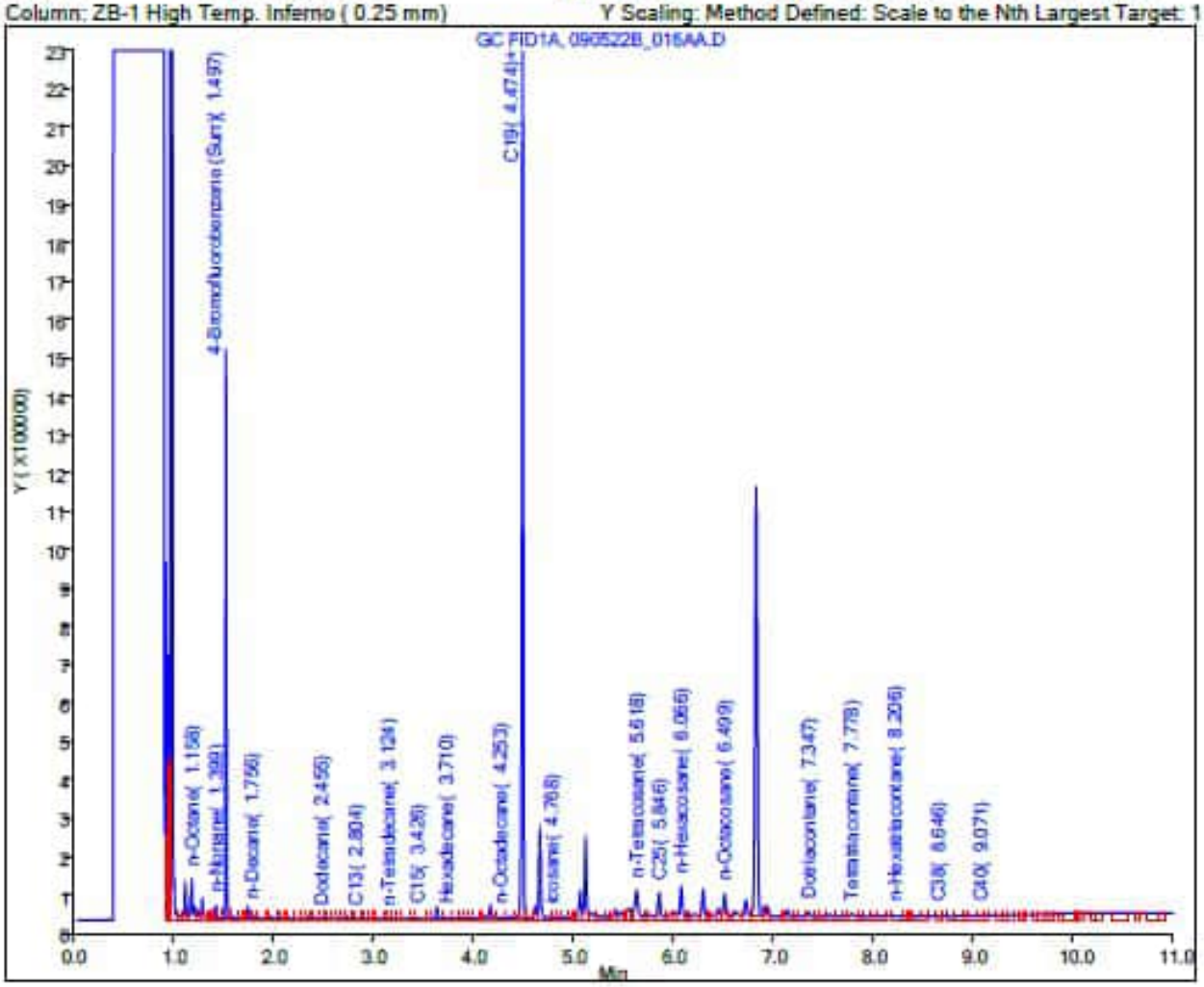
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 12:56:23 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_016AA.D				
Injection Date:	06-Sep-2022 02:02:30	Instrument ID:	TAC020		
Lims ID:	580-117487-F-7-A	Lab Sample ID:	580-117487-7		
Client ID:	RHWMW08-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	15	Worklist Smp#:	76
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW08 Sample ID: RHMW08-WGN01B-2209WK2 Sample Date: 09/14/2022
Lab: Eurofins Seattle

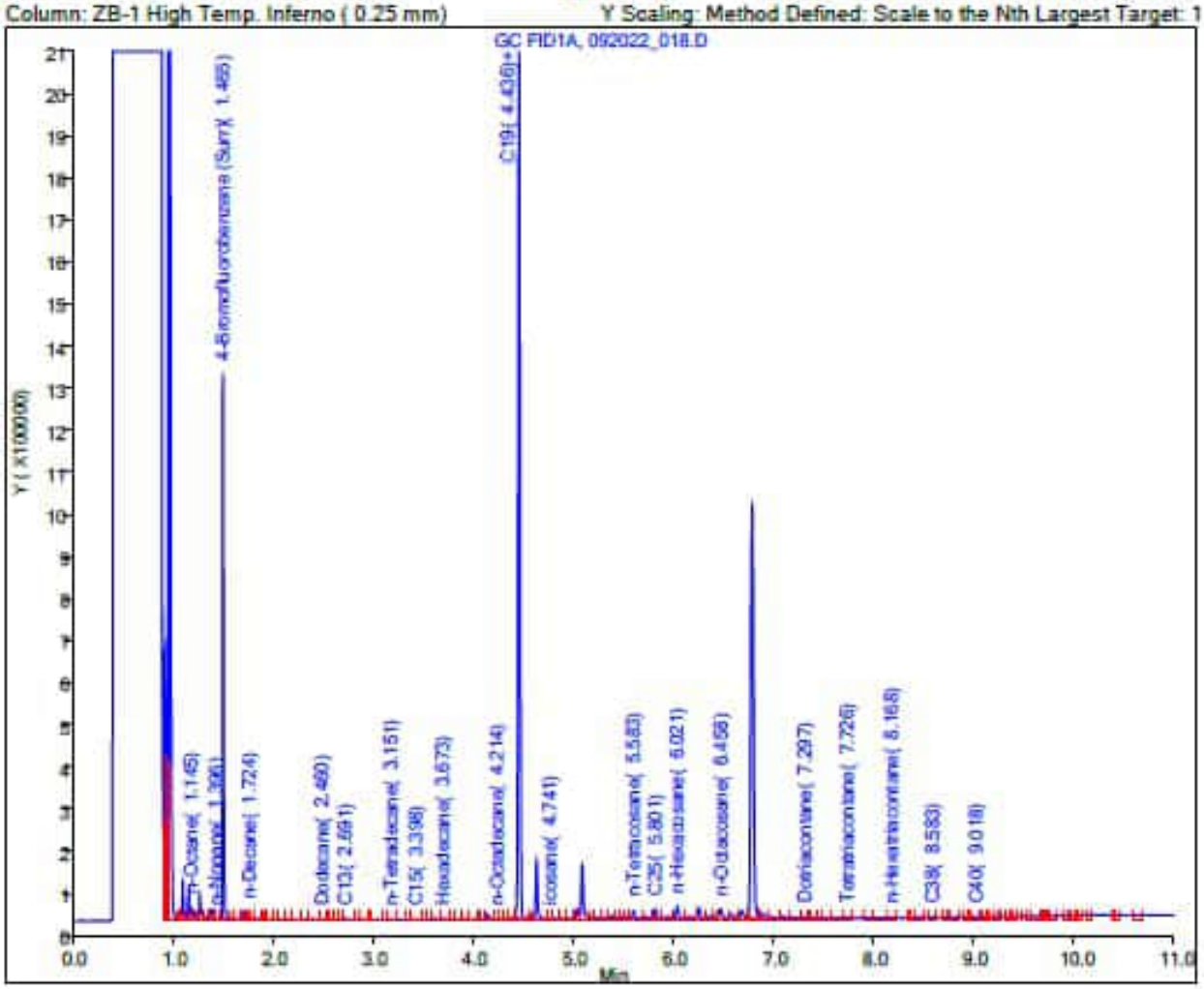
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 21-Sep-2022 13:09:17 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_018.D				
Injection Date:	20-Sep-2022 23:40:30	Instrument ID:	TAC020		
Lims ID:	580-117905-F-7-A	Lab Sample ID:	580-117905-7		
Client ID:	RHMW08-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	45
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW08 Sample ID: RHMW08-WGN01B-2209WK3 Sample Date: 09/23/2022
Lab: Eurofins Seattle

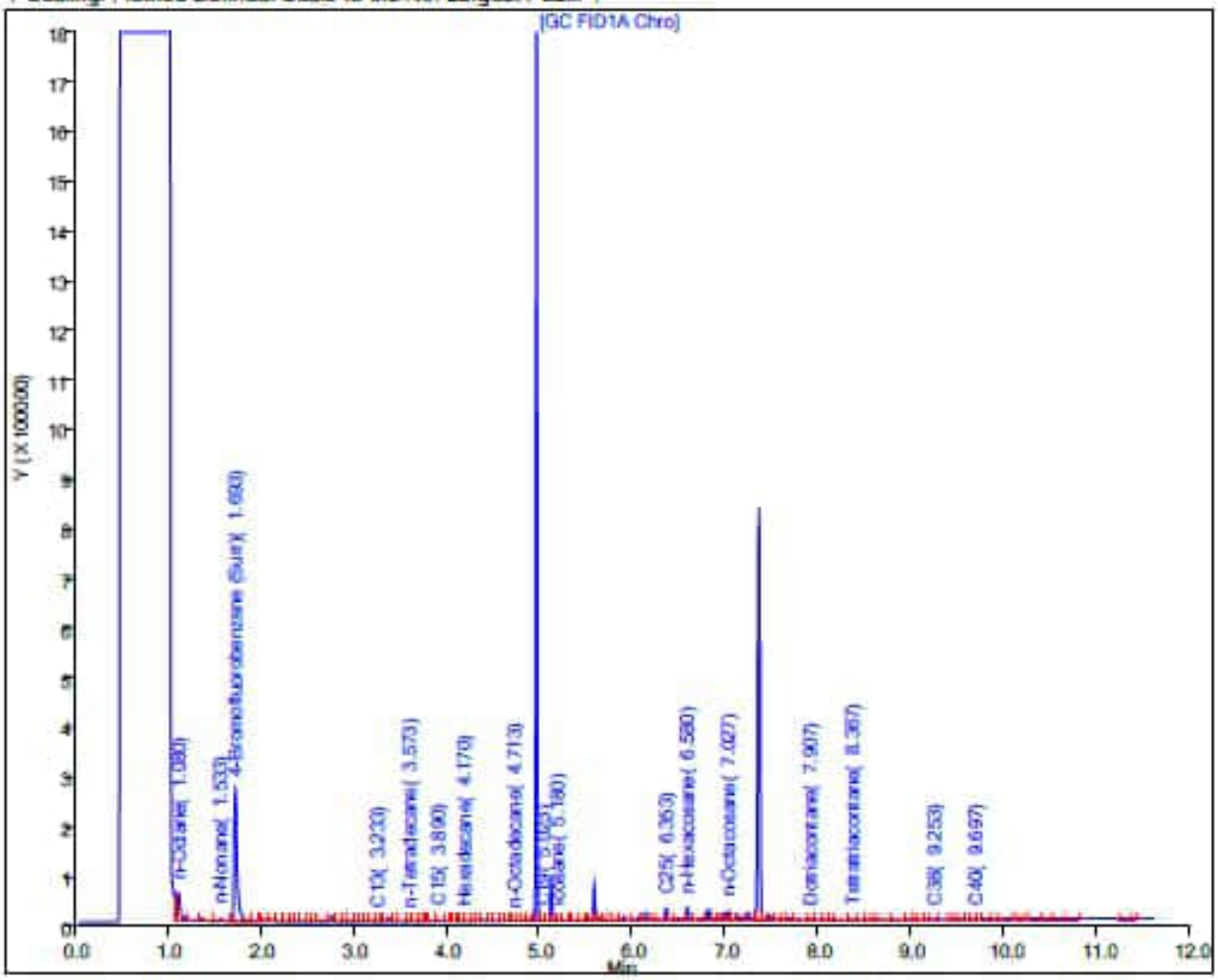
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 30-Sep-2022 15:19:11 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220929-85106.b\092922A016.D				
Injection Date:	29-Sep-2022 21:21:29	Instrument ID:	TAC129		
Lims ID:	580-118258-D-6-A	Lab Sample ID:	580-118258-6		
Client ID:	RHMW08-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW08 Sample ID: RHMW08-WGN01B-2209WK4 Sample Date: 09/28/2022
Lab: Eurofins Seattle

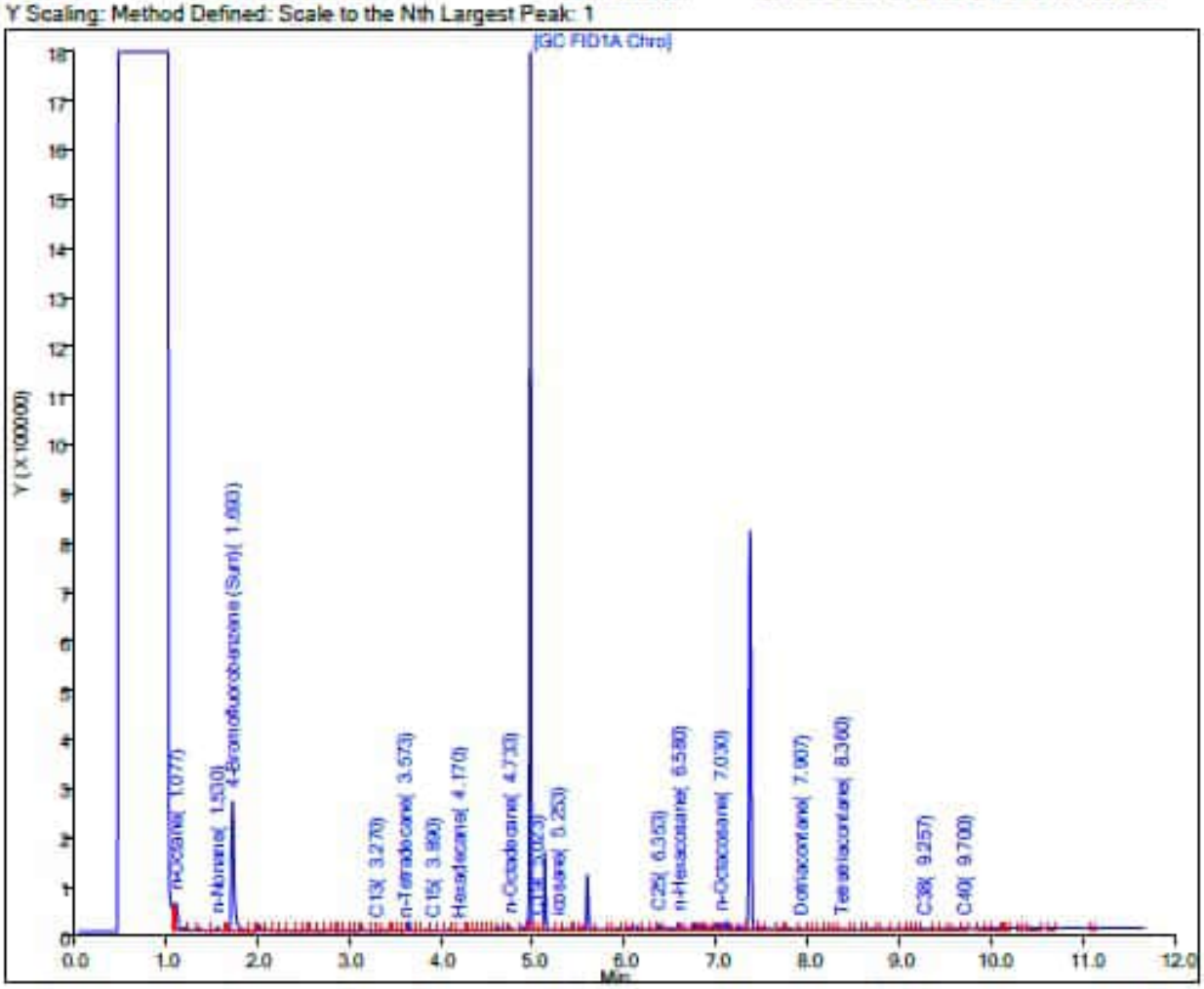
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 05-Oct-2022 12:40:07 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\1004A22A040.D				
Injection Date:	05-Oct-2022 00:12:24	Instrument ID:	TAC129		
Lims ID:	580-118384-C-8-A	Lab Sample ID:	580-118384-8		
Client ID:	RHMW08-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW09 Sample ID: RHMW09-WGN01B-2208WK3 Sample Date: 08/15/2022
Lab: Eurofins Seattle

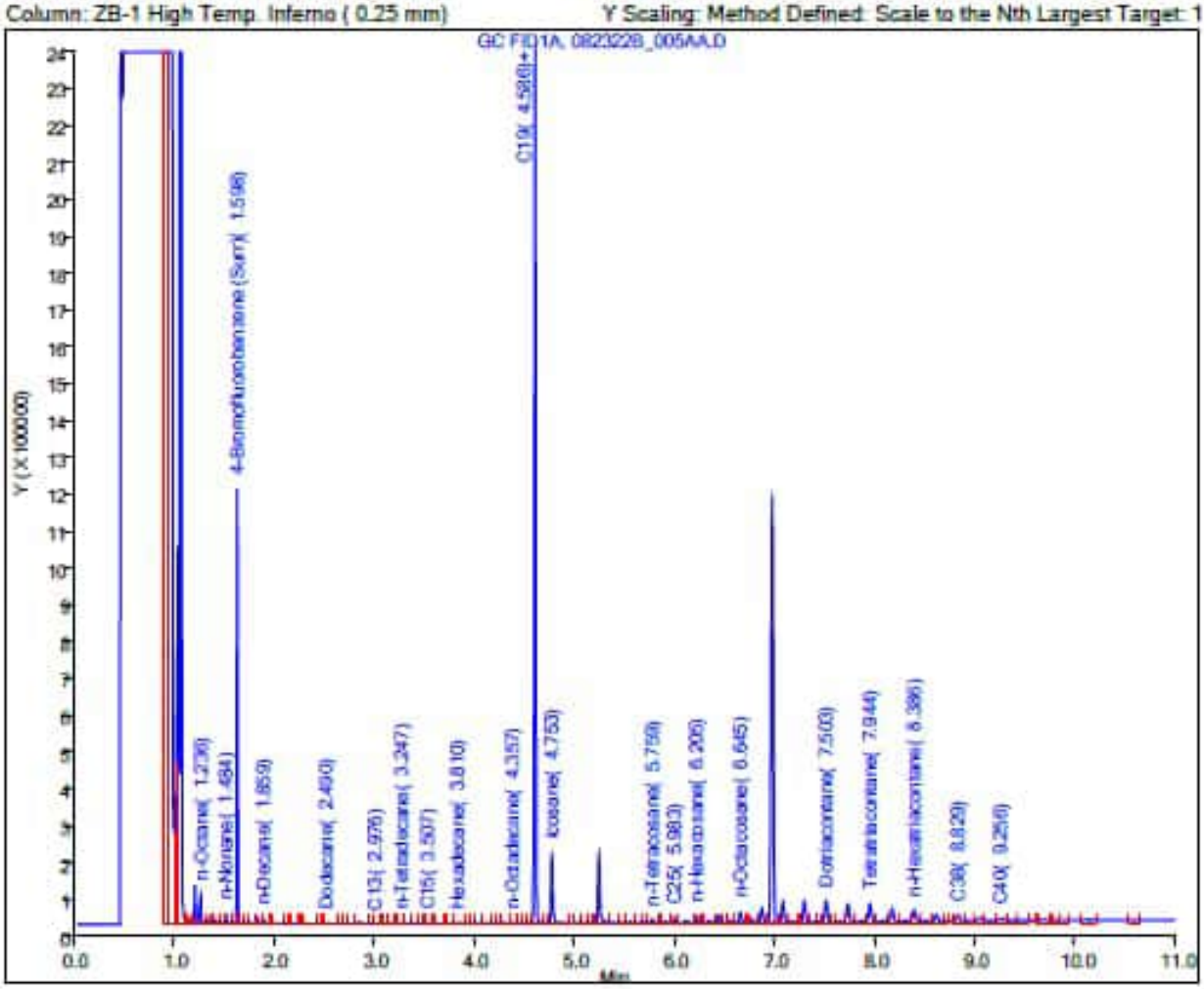
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 24-Aug-2022 09:23:26 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_005AA.D				
Injection Date:	23-Aug-2022 19:02:30	Instrument ID:	TAC020		
Lims ID:	580-116988-D-3-A	Lab Sample ID:	580-116988-3		
Client ID:	RHMW09-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW09 Sample ID: RHMW09-WGN01B-2208WK4 Sample Date: 08/22/2022

Lab: Eurofins Seattle

Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 31-Aug-2022 13:52:38 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220830-84577.b\083022B_006AA.D				
Injection Date:	30-Aug-2022 21:31:30	Instrument ID:	TAC020		
Lims ID:	580-117203-C-8-A	Lab Sample ID:	580-117203-8		
Client ID:	RHMW09-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

No Silica Gel Cleanup performed.

Location: RHMW09 Sample ID: RHMW09-WGN01B-2208WK5 Sample Date: 08/29/2022
Lab: Eurofins Seattle

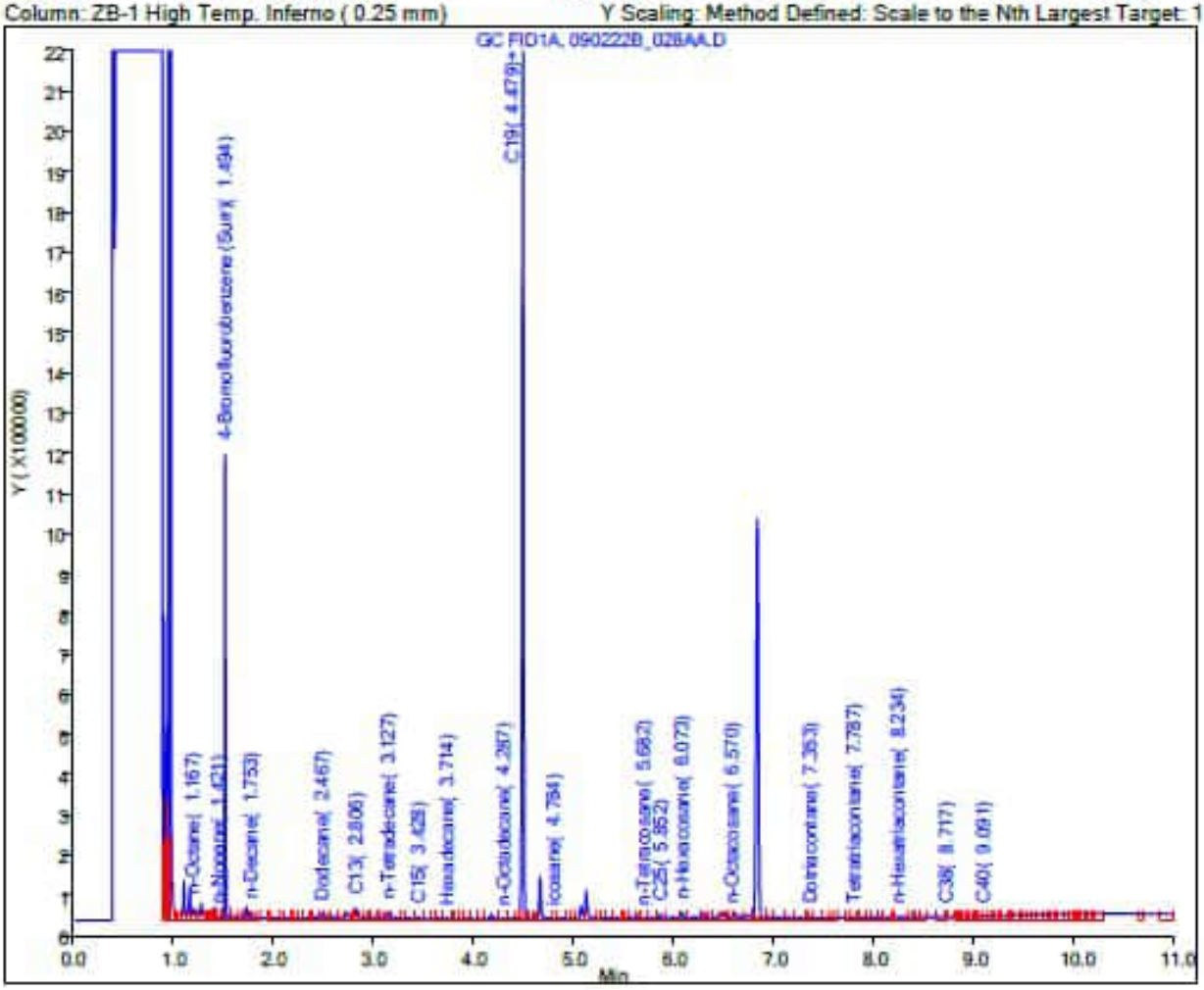
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 06-Sep-2022 14:19:46 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_028AA.D				
Injection Date:	03-Sep-2022 07:22:30	Instrument ID:	TAC020		
Lims ID:	580-117408-O-8-A	Lab Sample ID:	580-117408-8		
Client ID:	RHMW09-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	27	Worklist Smp#:	85
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW09 Sample ID: RHMW09-WGN01B-2209WK3 Sample Date: 09/19/2022
Lab: Eurofins Seattle

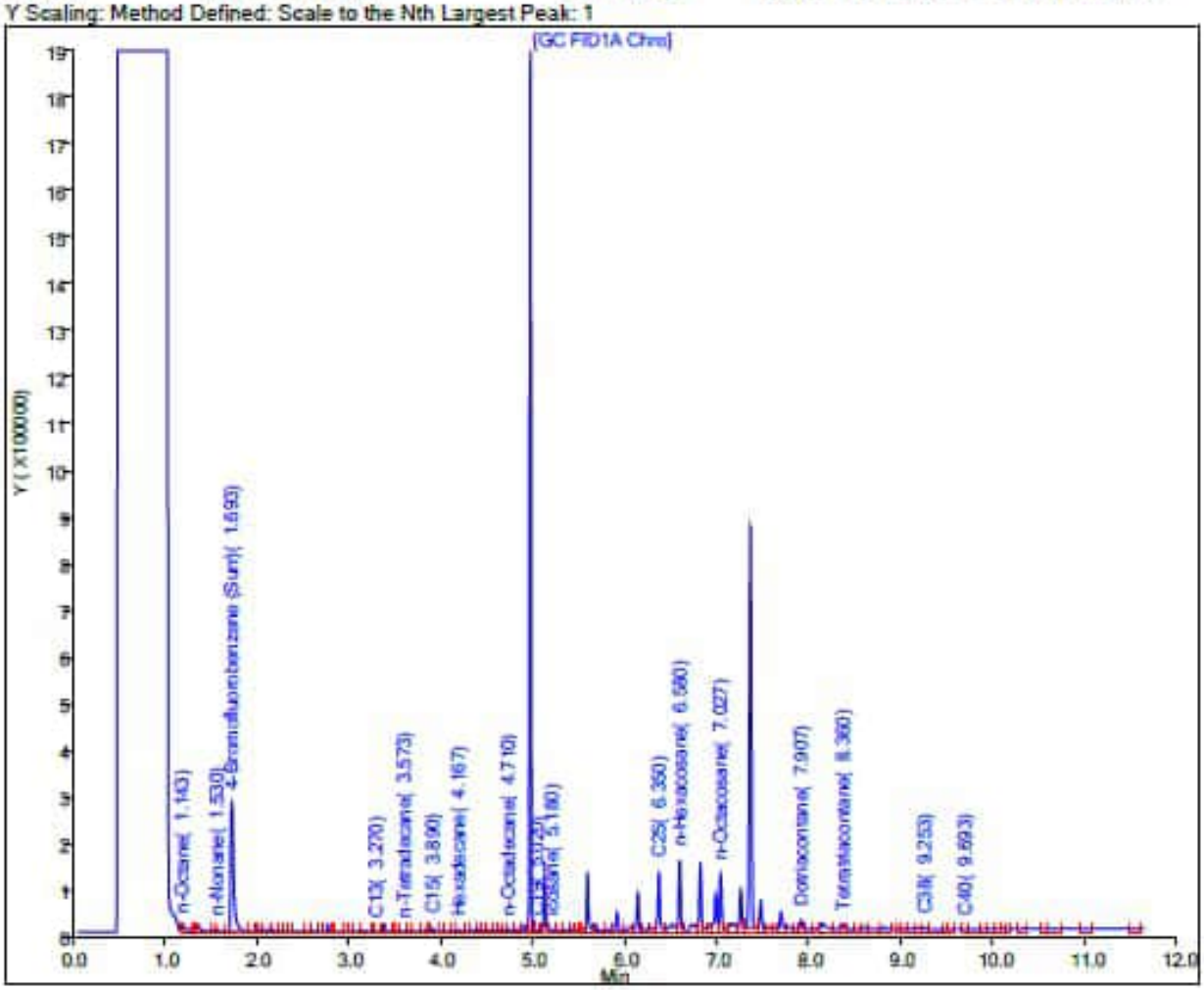
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 24-Sep-2022 22:00:51 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220923-84999.b\092322A018.D				
Injection Date:	23-Sep-2022 19:11:35	Instrument ID:	TAC129		
Lims ID:	580-118121-Q-S-A	Lab Sample ID:	580-118121-S		
Client ID:	RHMW09-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW09 Sample ID: RHMW09-WGN01B-2209WK4 Sample Date: 09/26/2022
Lab: Eurofins Seattle

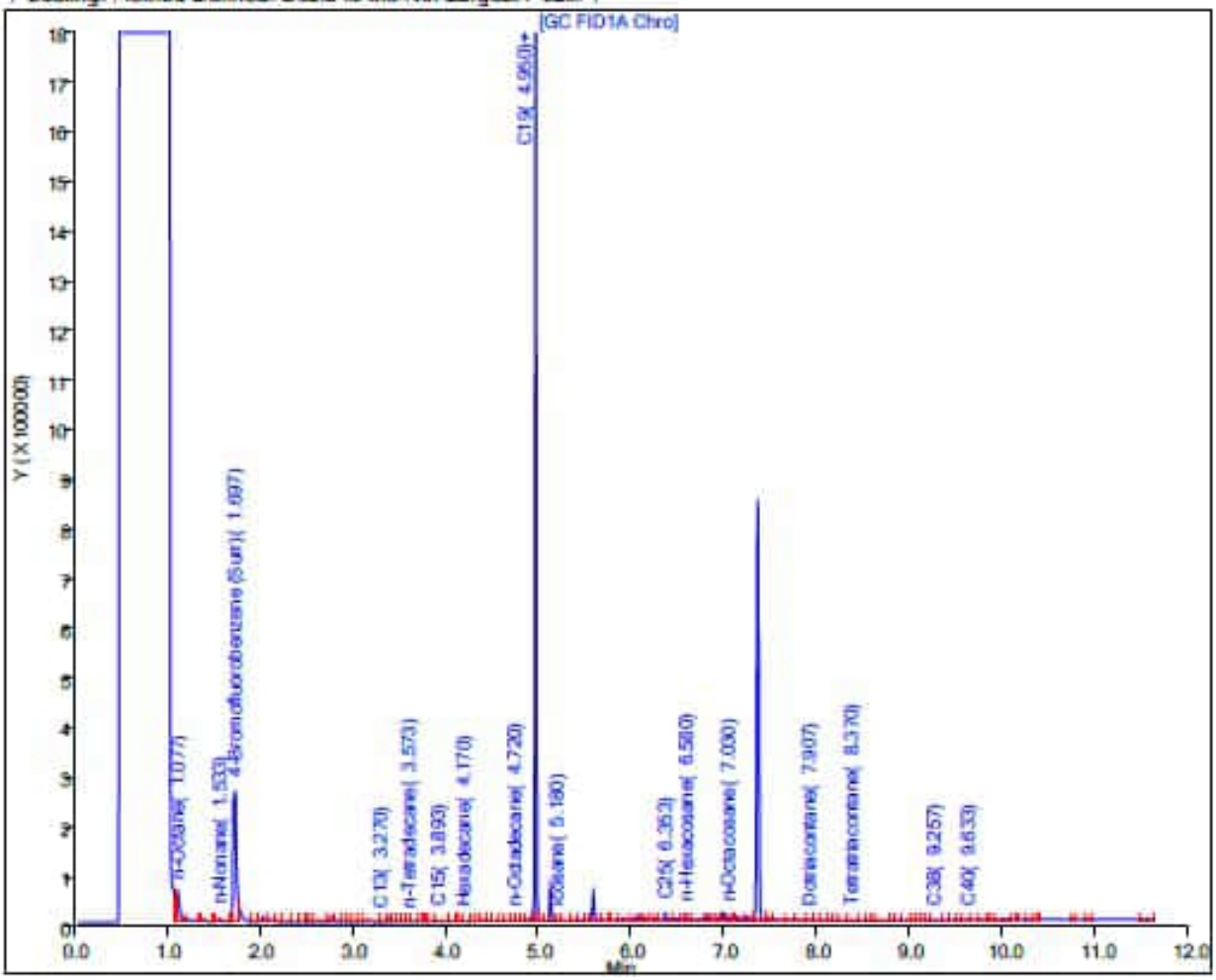
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 03-Oct-2022 13:36:49 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A020.D				
Injection Date:	30-Sep-2022 22:19:01	Instrument ID:	TAC129		
Lims ID:	580-118300-E-6-A	Lab Sample ID:	580-118300-6		
Client ID:	RHMW09-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW11-05 Sample ID: RHMW11-05-WGN01G-2208WK2 Sample Date: 8/12/2022

Lab: Eurofins Seattle

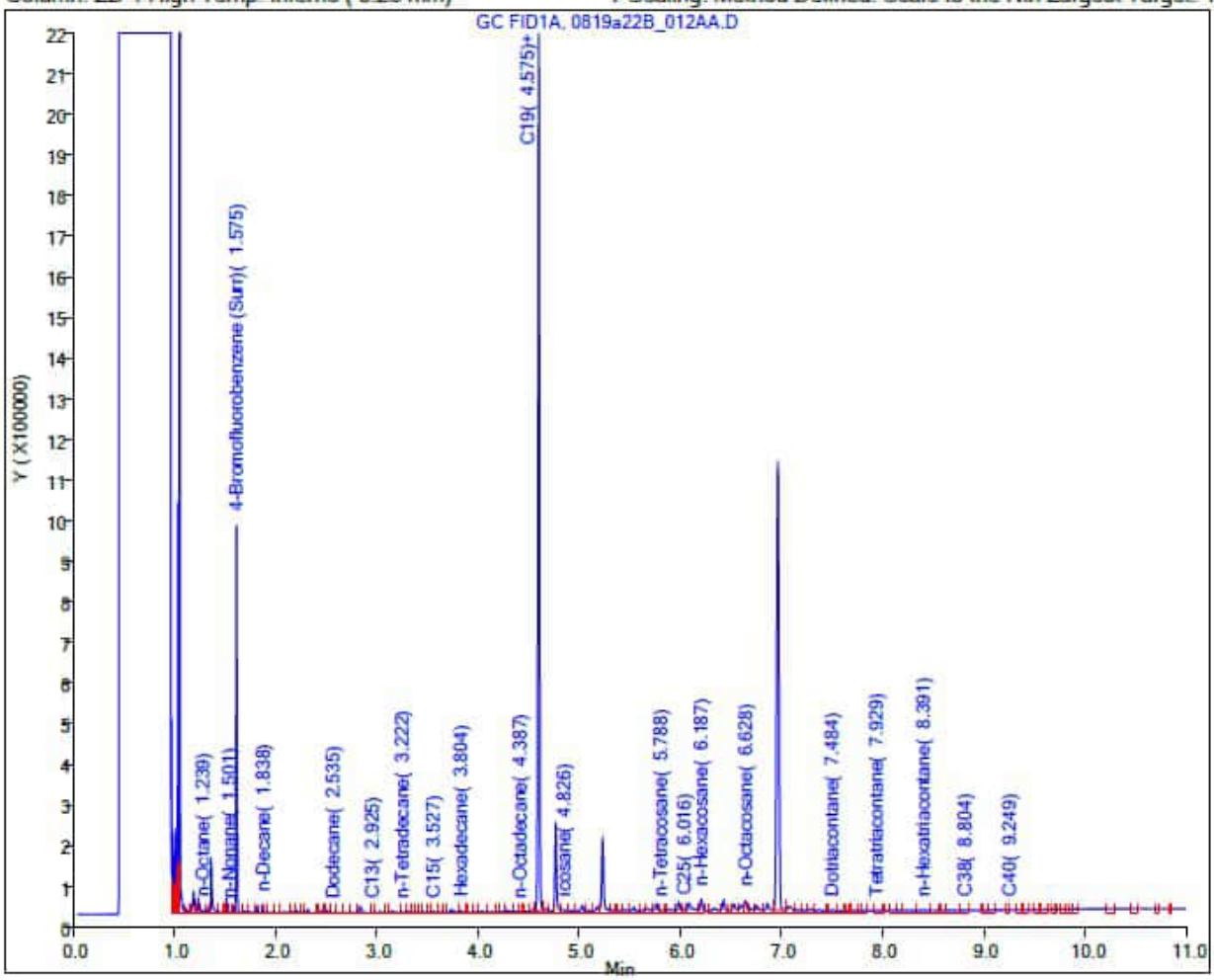
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 22-Aug-2022 23:00:10 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220819-84403.b\0819a22B_012AA.D				
Injection Date:	20-Aug-2022 01:29:30	Instrument ID:	TAC020		
Lims ID:	580-116979-F-7-A	Lab Sample ID:	580-116979-7		
Client ID:	RHMW11-05-WGN01G-2208WK2				
Operator ID:	DH	ALS Bottle#:	12	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW11-05 Sample ID: RHMW11-05-WGN01G-2208WK4 Sample Date: 8/22/2022

Lab: Eurofins Seattle

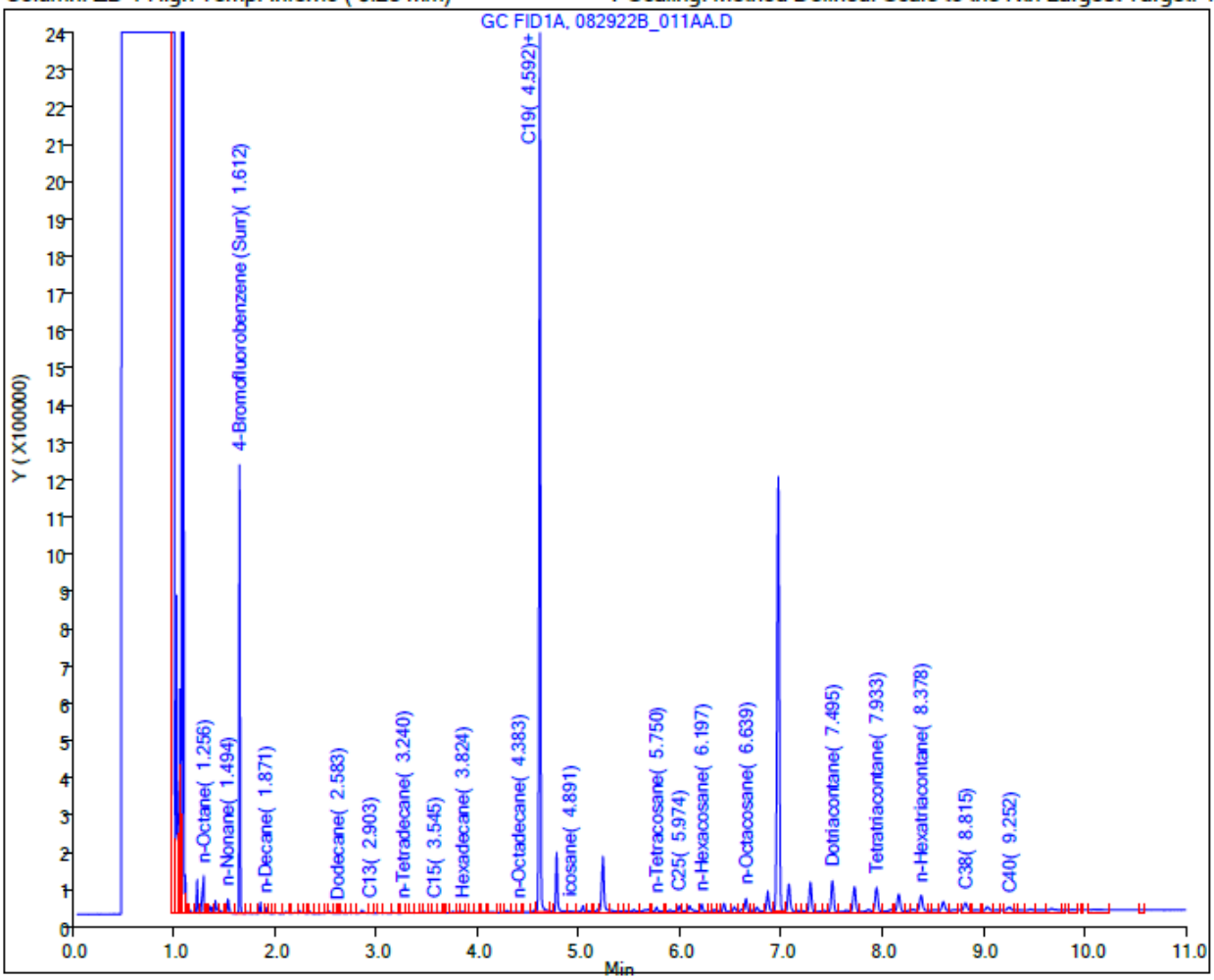
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 30-Aug-2022 12:43:50 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220829-84555.b\082922B_011AA.D				
Injection Date:	29-Aug-2022 22:49:30	Instrument ID:	TAC020		
Lims ID:	580-117203-D-1-A	Lab Sample ID:	580-117203-1		
Client ID:	RHMW11-05-WGN01G-2208WK4				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW11-05 Sample ID: RHMW11-05-WGN01G-2208WK5 Sample Date: 8/29/2022

Lab: Eurofins Seattle

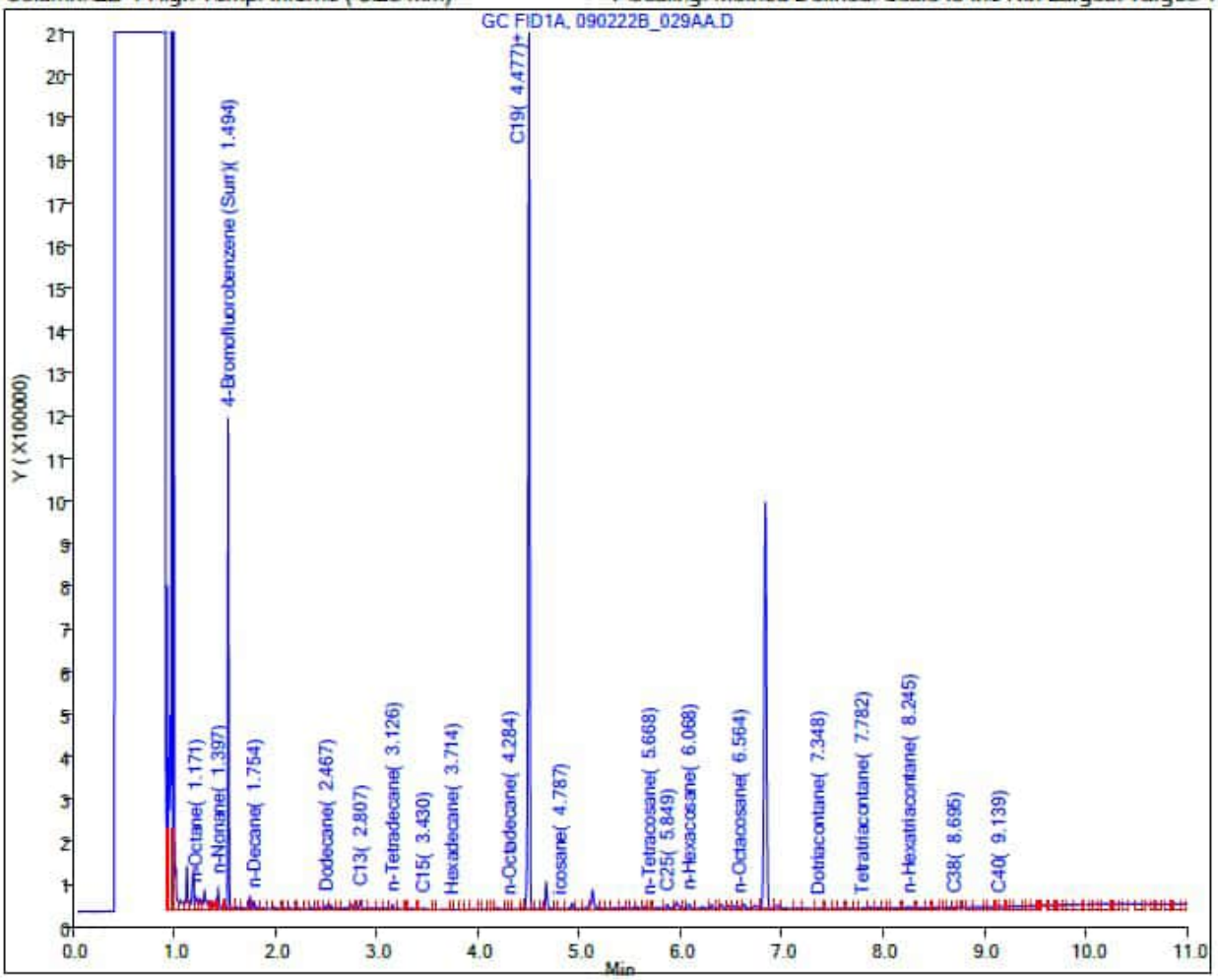
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 06-Sep-2022 14:19:50 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_029AA.D				
Injection Date:	03-Sep-2022 07:42:30	Instrument ID:	TAC020		
Lims ID:	580-117450-E-1-A	Lab Sample ID:	580-117450-1		
Client ID:	RHMW11-05-WGN01G-2208WK5				
Operator ID:	DH	ALS Bottle#:	28	Worklist Smp#:	86
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW11-05 Sample ID: RHMW11-05-WGN01G-2209WK4 Sample Date 9/27/2022

Lab: Eurofins Seattle

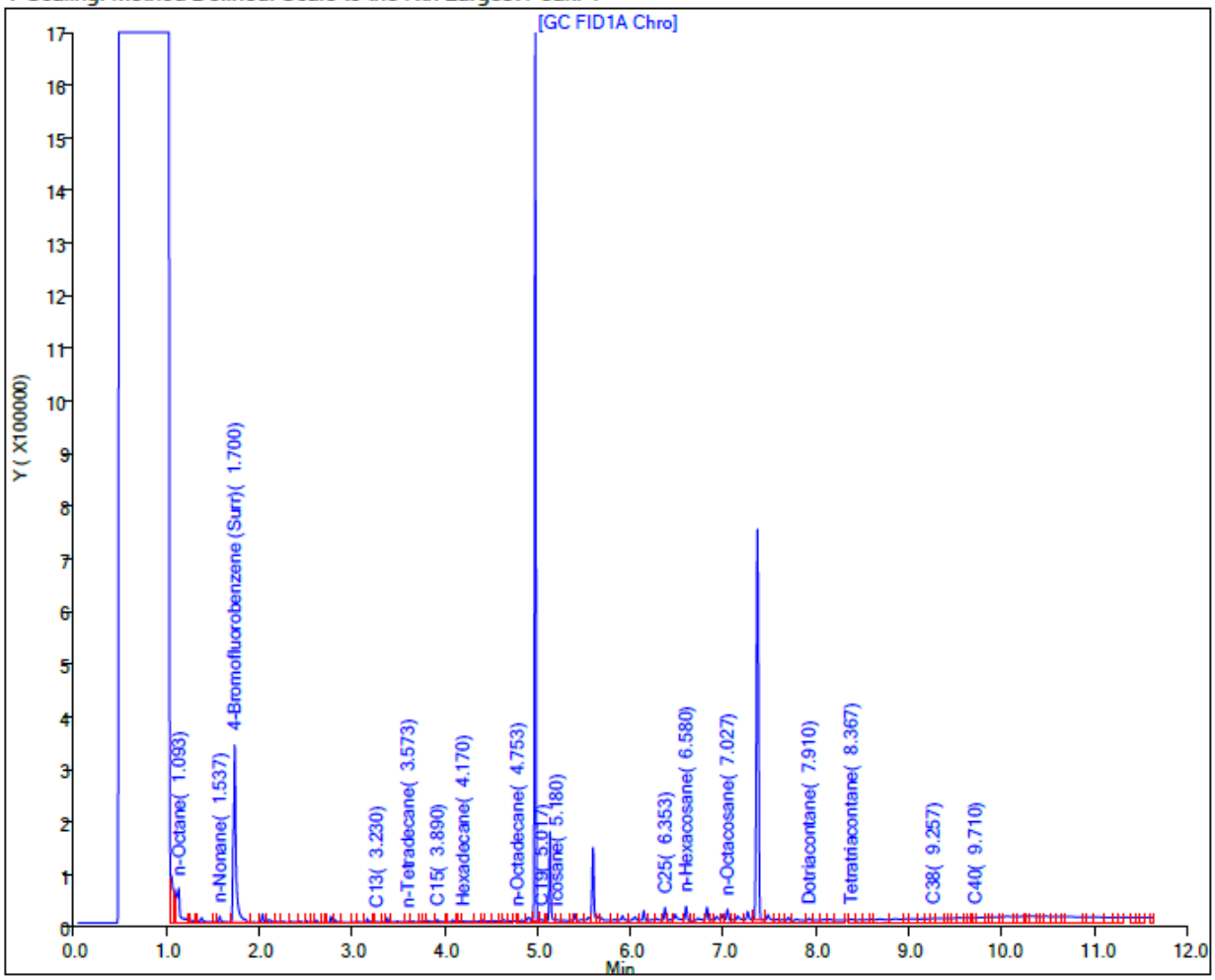
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 04-Oct-2022 12:31:27 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221003-85158.b\091522A014.D				
Injection Date:	03-Oct-2022 19:38:59	Instrument ID:	TAC129		
Lims ID:	580-118344-C-3-A	Lab Sample ID:	580-118344-3		
Client ID:	RHMW11-05-WGN01G-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW12A Sample ID: RHMW12A-WGN01LF-2208WK2 Sample Date: 8/9/2022

Lab: Eurofins Seattle

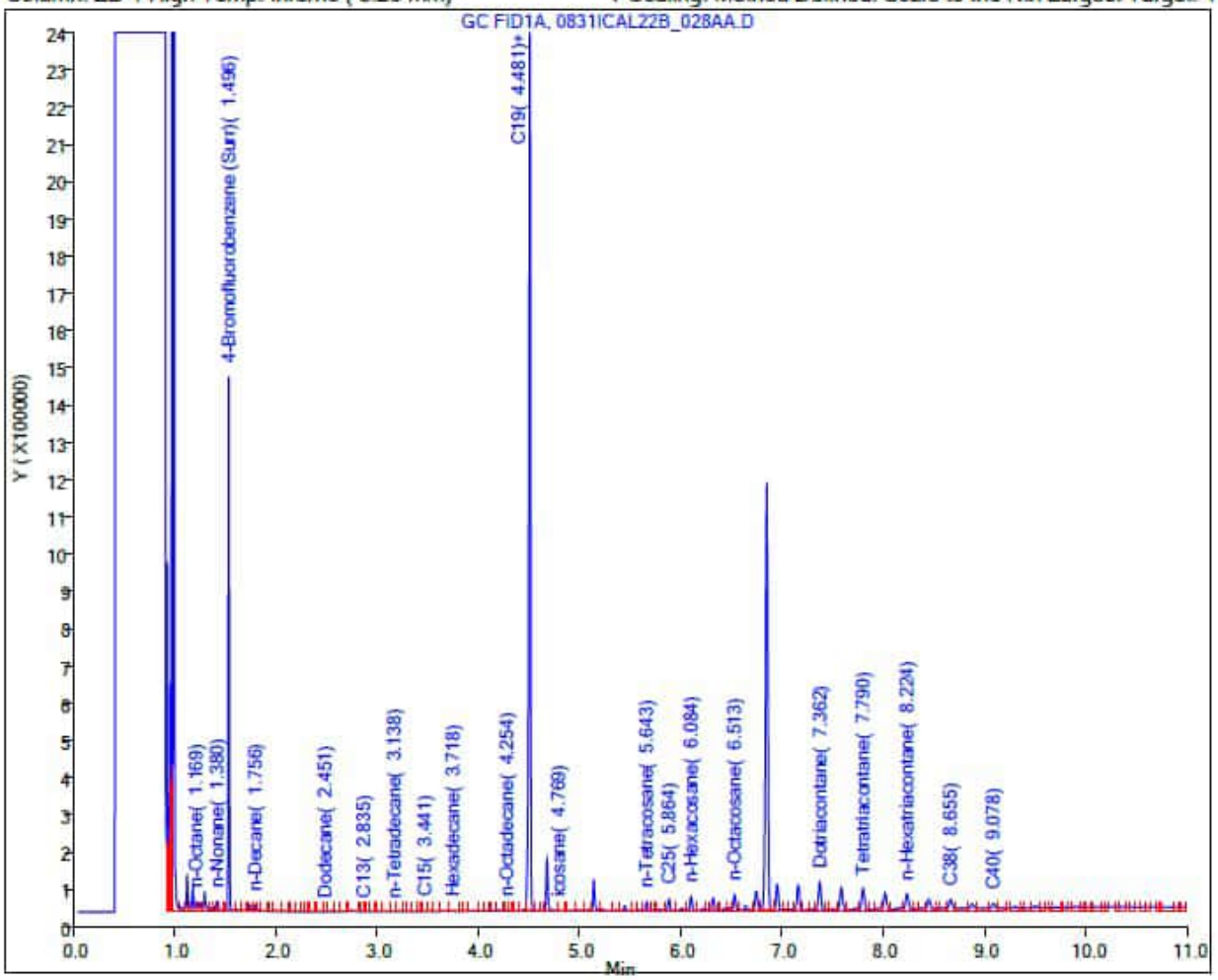
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 01-Sep-2022 14:05:35 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220831-84605.b\0831ICAL22B_028AA.D				
Injection Date:	01-Sep-2022 08:27:30	Instrument ID:	TAC020		
Lims ID:	580-116809-F-7-A	Lab Sample ID:	580-116809-7		
Client ID:	RHMW12A-WGN01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	16	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Lcation: RHMW12A Sample ID: RHMW12A-WGN01LF-2208WK3 Sample Date: 8/16/2022

Lab: Eurofins Seattle

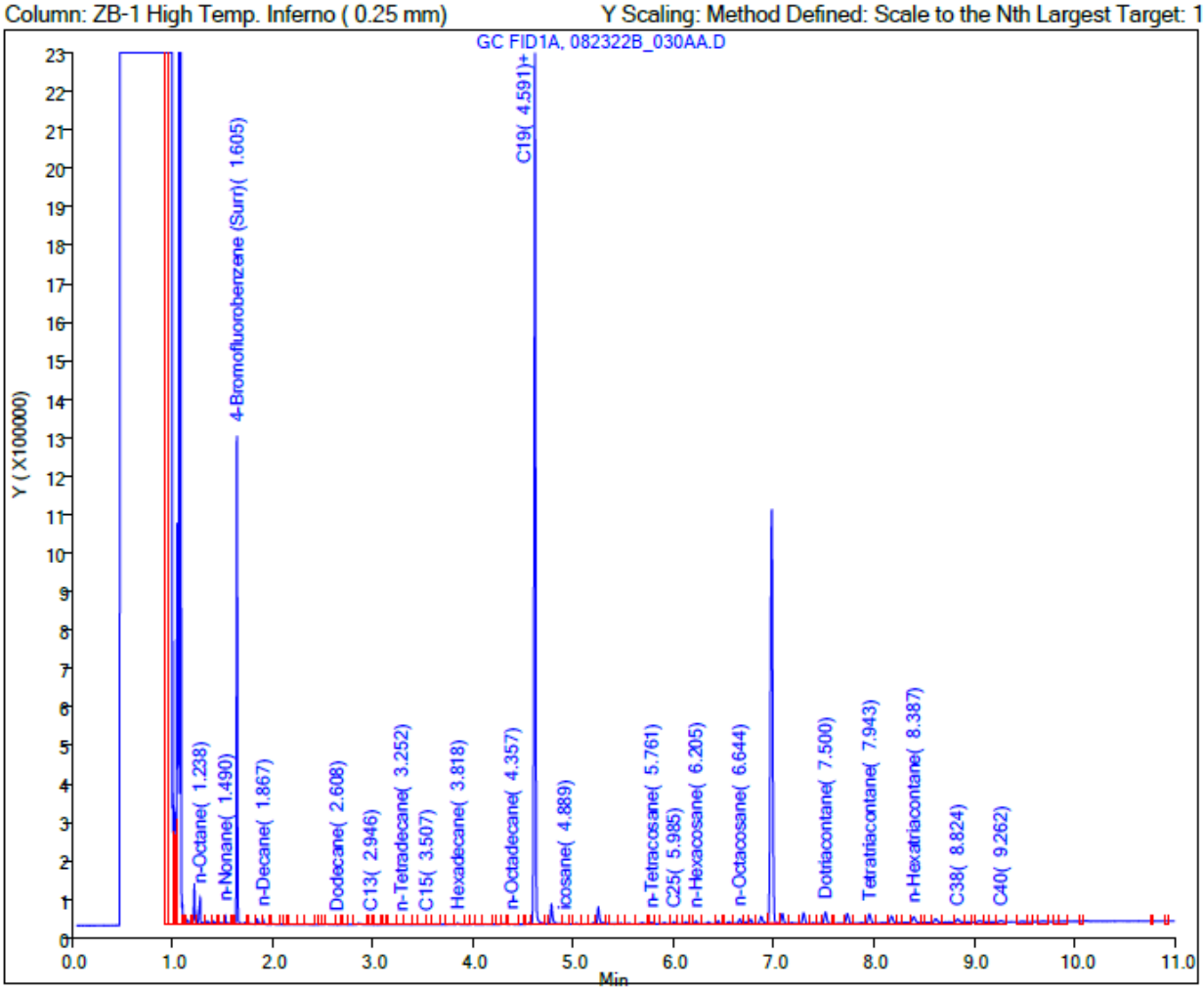
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 24-Aug-2022 09:25:55 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_030AA.D				
Injection Date:	24-Aug-2022 03:47:30	Instrument ID:	TAC020		
Lims ID:	580-117032-D-7-A	Lab Sample ID:	580-117032-7		
Client ID:	RHMW12A-WGN01LF-2208WK3				
Operator ID:	DH	ALS Bottle#:	30	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW12A Sample ID: RHMW12A-WGN01LF-2208WK5 Sample Date: 9/1/2022

Lab: Eurofins Seattle

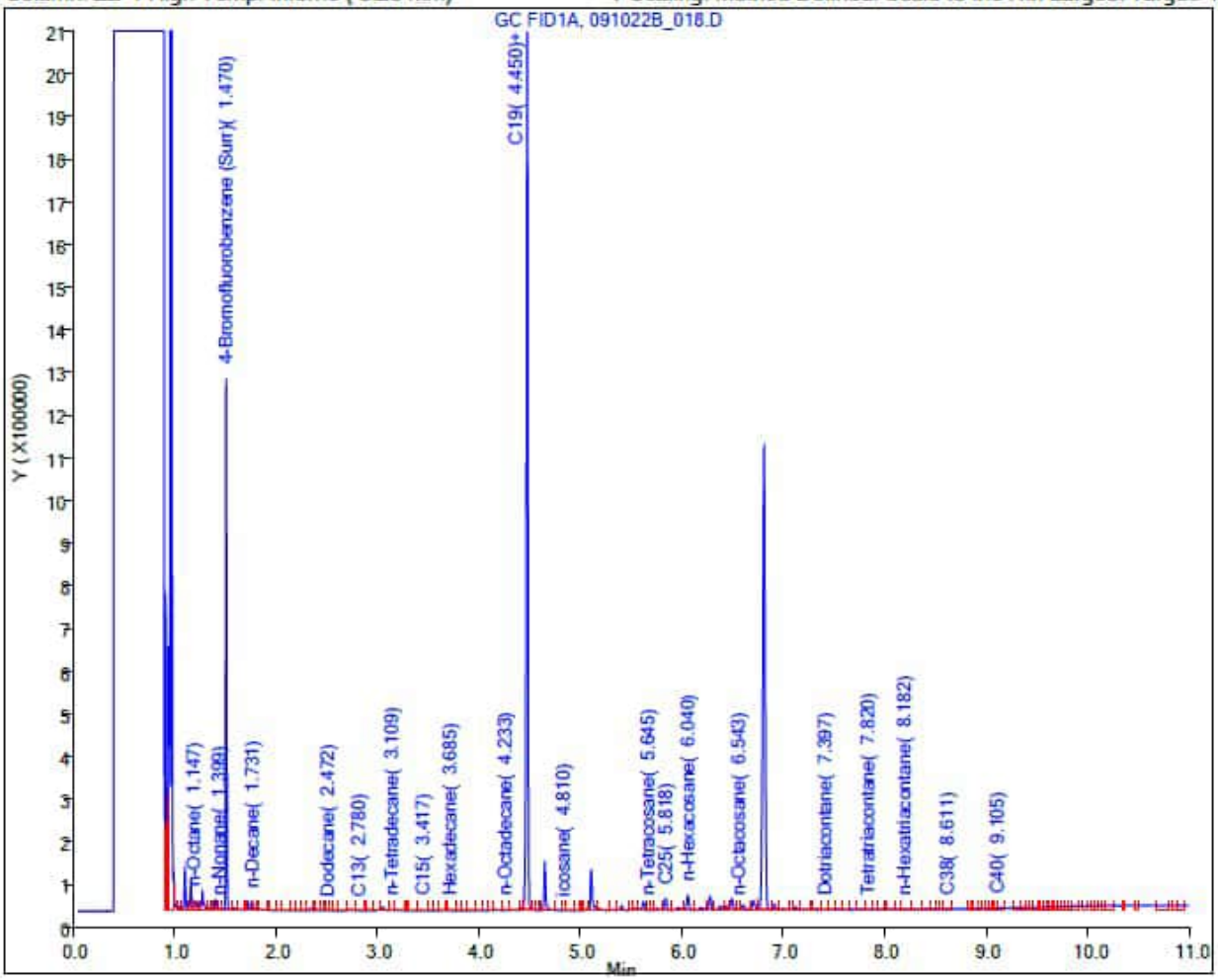
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 13:12:44 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220909-84751.b\091022B_018.D				
Injection Date:	10-Sep-2022 03:49:30	Instrument ID:	TAC020		
Lims ID:	580-117596-C-8-A	Lab Sample ID:	580-117596-8		
Client ID:	RHMW12A-WGN01LF-2208WK5				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW12A Sample ID: RHMW12A-WGN01LF-2209WK3 Sample Date: 9/22/2022

Lab: Eurofins Seattle

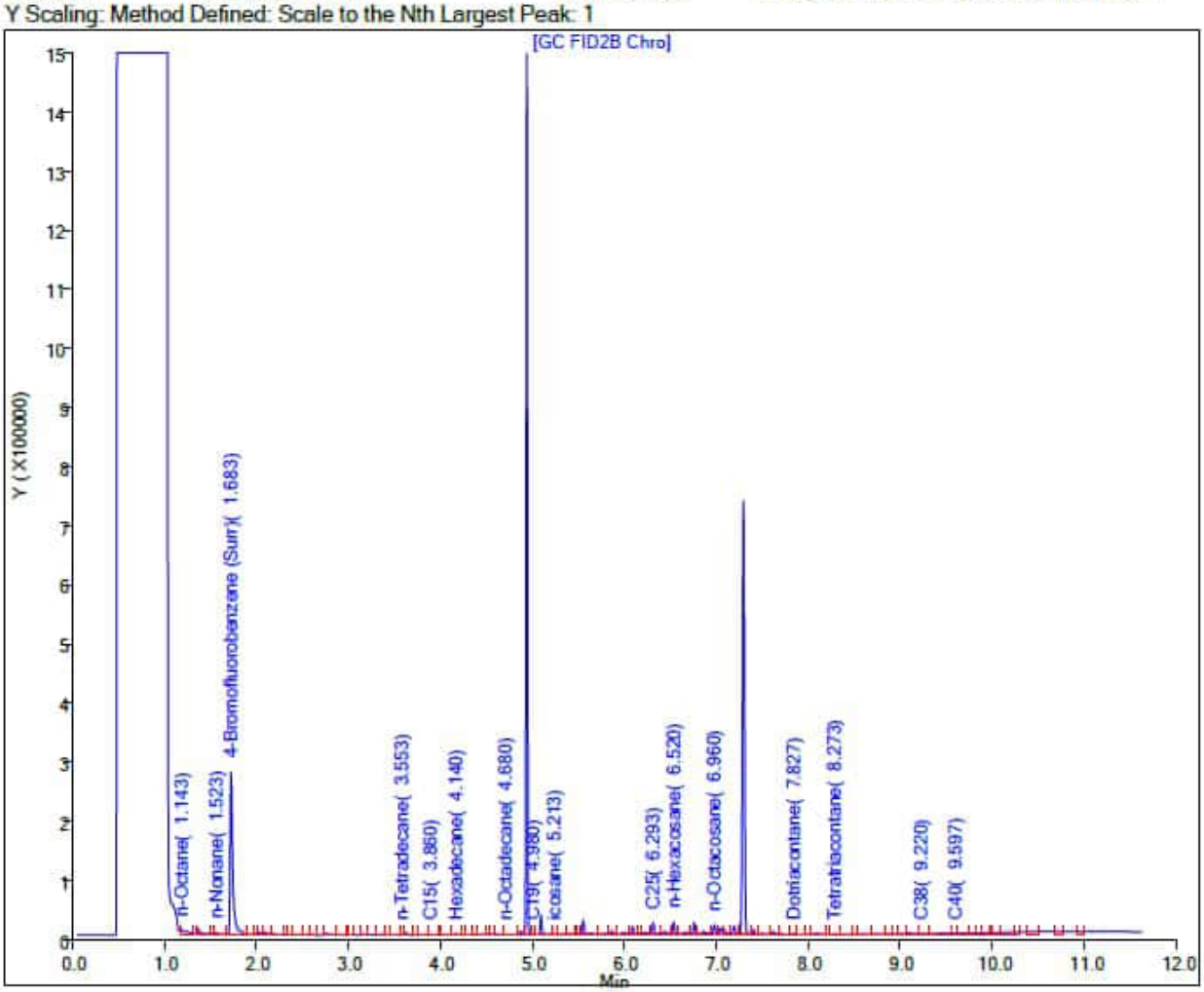
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 29-Sep-2022 15:58:57 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220928-85077.b\092822A025.D				
Injection Date:	28-Sep-2022 21:23:32	Instrument ID:	TAC129_R		
Lims ID:	580-118243-D-9-A	Lab Sample ID:	580-118243-9		
Client ID:	RHMW12A-WGN01LF-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW12A Sample ID: RHMW12A-WGN01LF-2209WK4 Sample Date: 9/27/2022

Lab: Eurofins Seattle

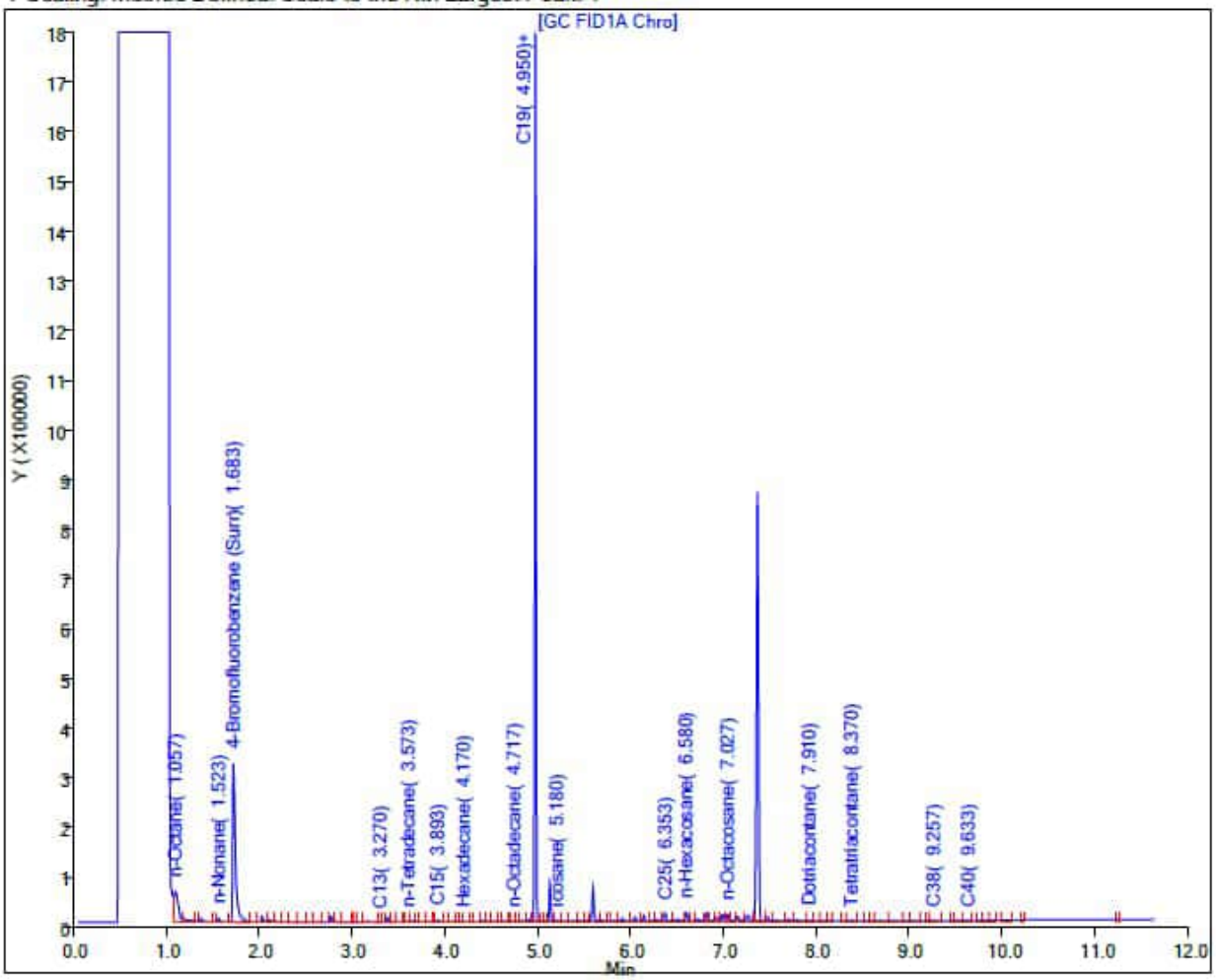
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 03-Oct-2022 13:37:00 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132 b\093022A024.D				
Injection Date:	30-Sep-2022 22:56:45	Instrument ID:	TAC129		
Lims ID:	580-118302-F-3-A	Lab Sample ID:	580-118302-3		
Client ID:	RHMW12A-WGN01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW13-05 Sample ID: RHMW13-05-WGN01G-2208WK2 Sample Date: 8/13/2022

Lab: Eurofins Seattle

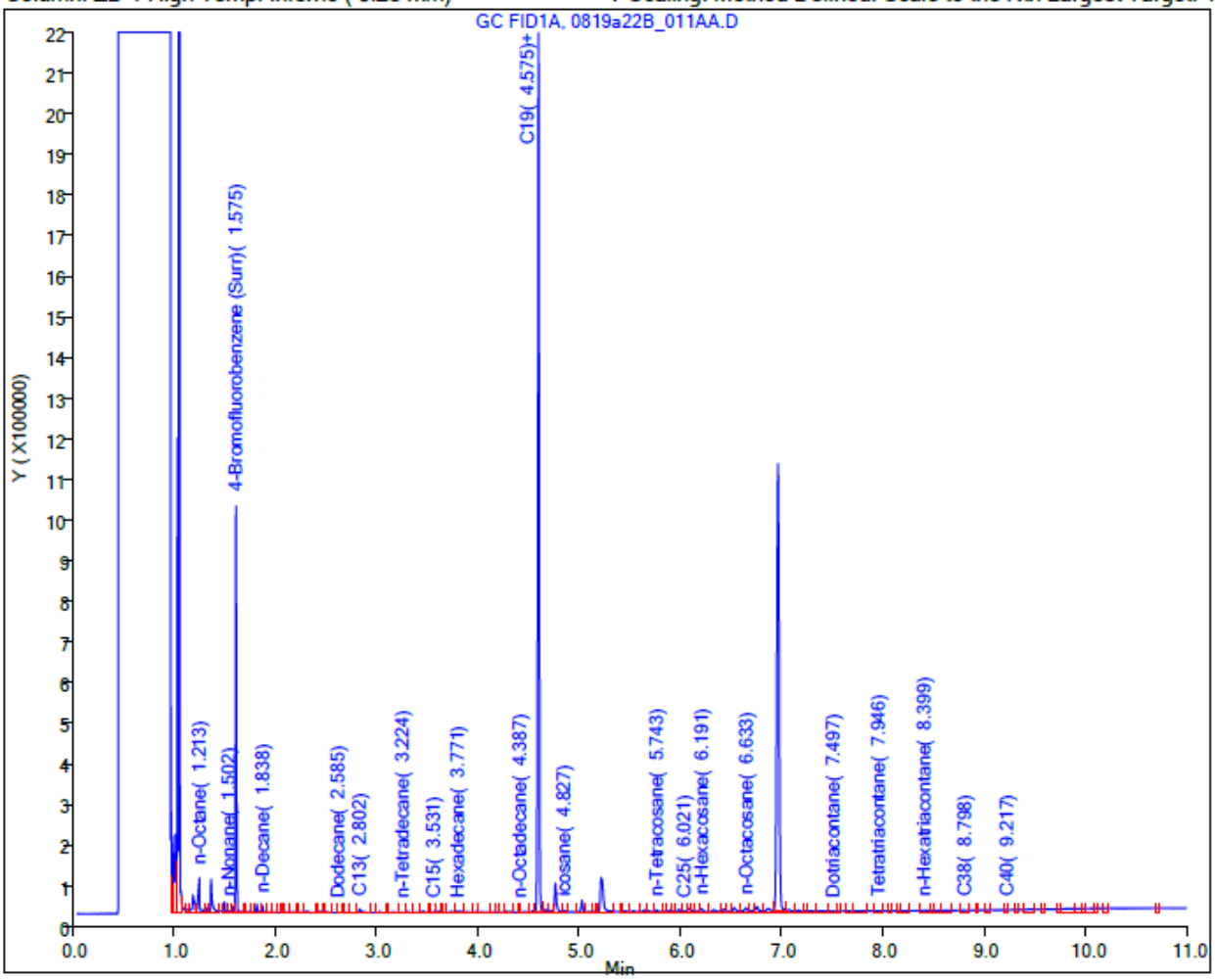
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 22-Aug-2022 23:00:05 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220819-84403.b\0819a22B_011AA.D				
Injection Date:	20-Aug-2022 01:08:30	Instrument ID:	TAC020		
Lims ID:	580-116979-E-5-A	Lab Sample ID:	580-116979-5		
Client ID:	RHMW13-05-WGN01G-2208WK2				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW13-05 Sample ID: RHMW13-05-WGN01G-2208WK5 Sample Date: 8/31/2022

Lab: Eurofins Seattle

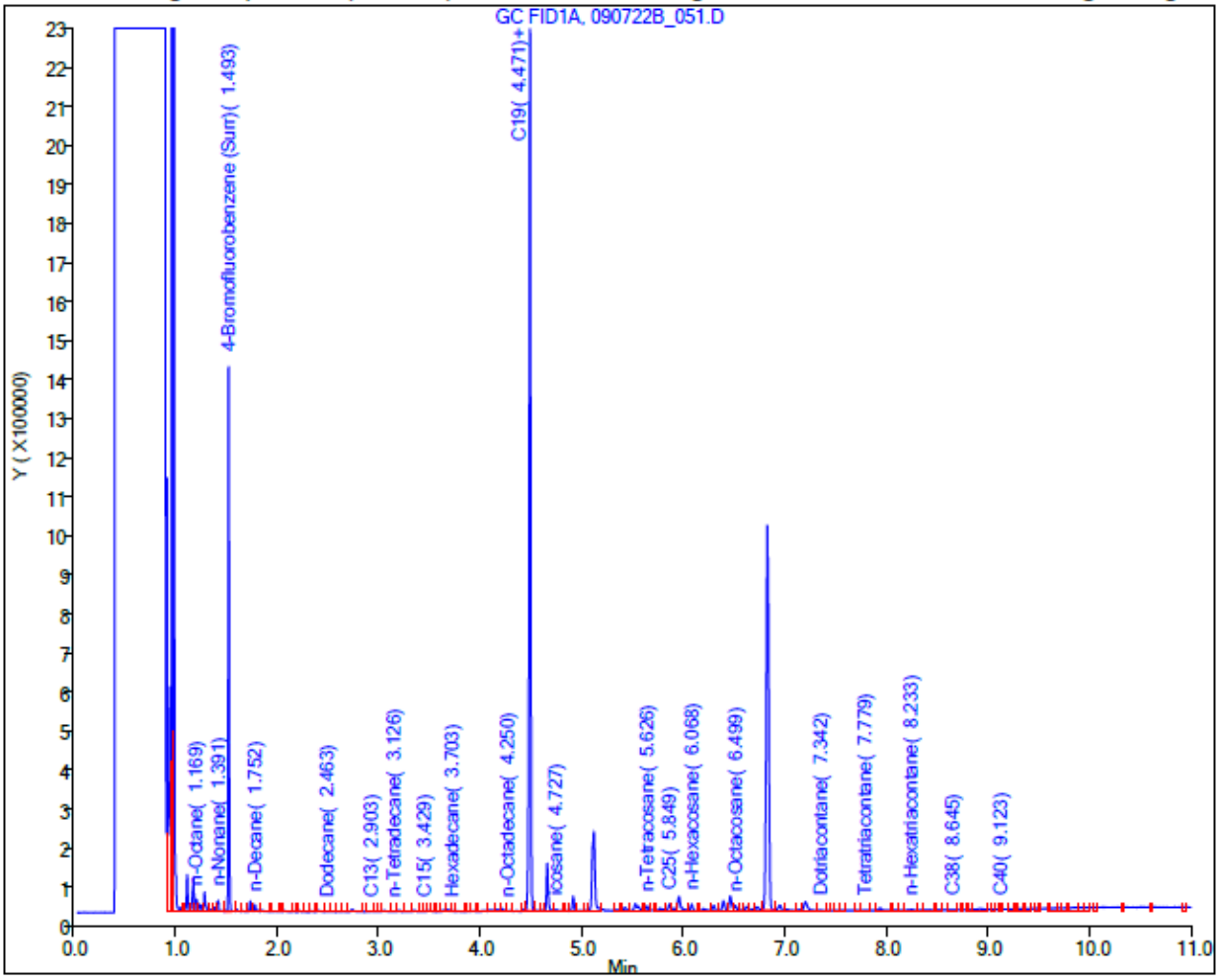
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 08-Sep-2022 19:27:00 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220907-84710.b\090722B_051.D				
Injection Date:	08-Sep-2022 16:26:30	Instrument ID:	TAC020		
Lims ID:	580-117486-E-13-C	Lab Sample ID:	580-117486-13		
Client ID:	RHWMW13-05-WGN01G-2208WK5				
Operator ID:	DH	ALS Bottle#:	50	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW13-05 Sample ID: RHMW13-05-WGN01G-2209WK1 Sample Date: 9/9/2022

Lab: Eurofins Seattle

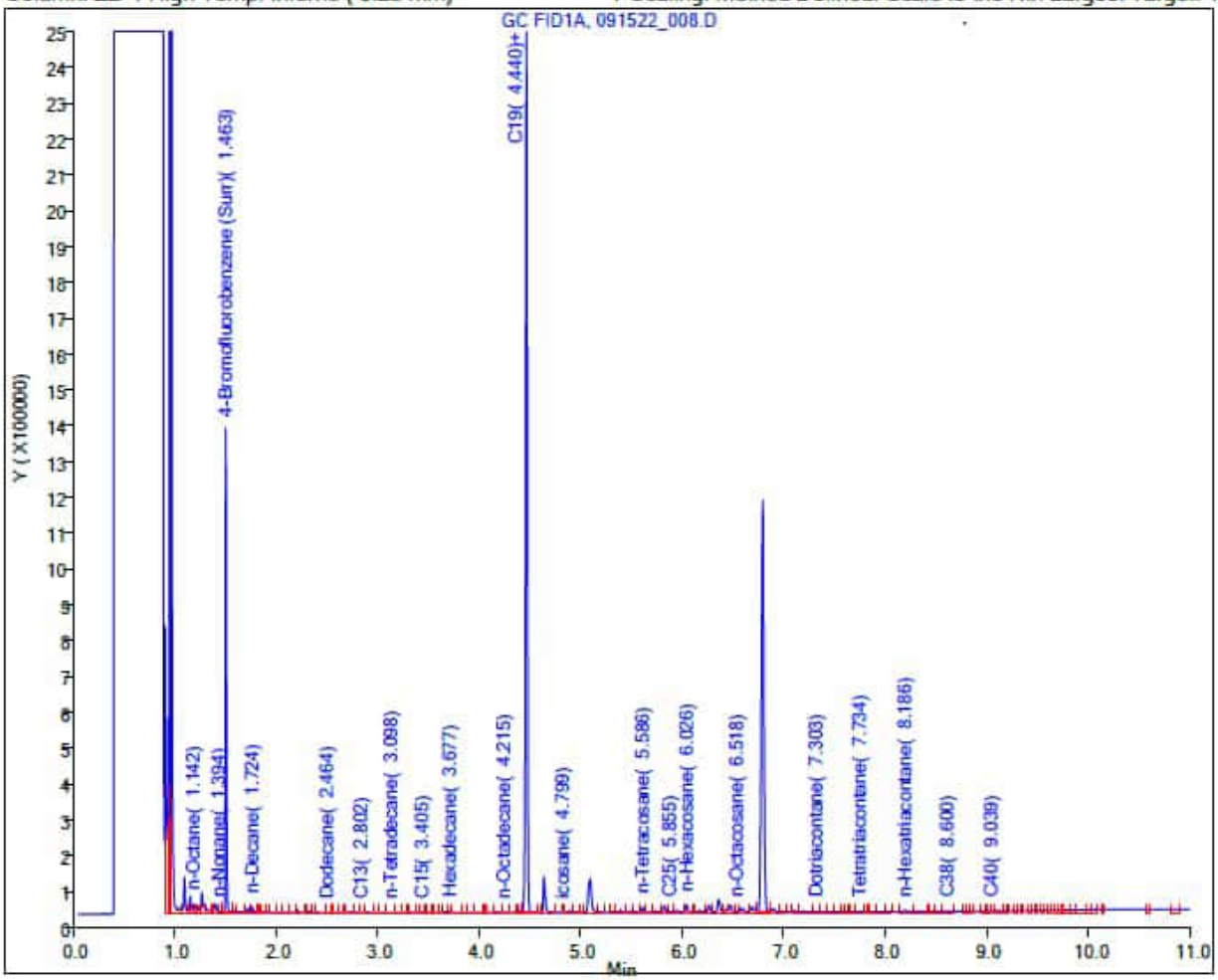
Results (ug/L): TPH-d (C10 to C24) <100 TPH-o (C24 to C40) <300 U

Report Date: 16-Sep-2022 14:26:01 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220915-84852.b\091522_008.D				
Injection Date:	15-Sep-2022 20:05:30	Instrument ID:	TAC020		
Lims ID:	580-117798-E-3-A	Lab Sample ID:	580-117798-3		
Client ID:	RHMW13-05-WGN01G-2209WK1				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW13-05 Sample ID: RHMW13-05-WGN01G-2209WK2 Sample Date: 9/14/2022

Lab: Eurofins Seattle

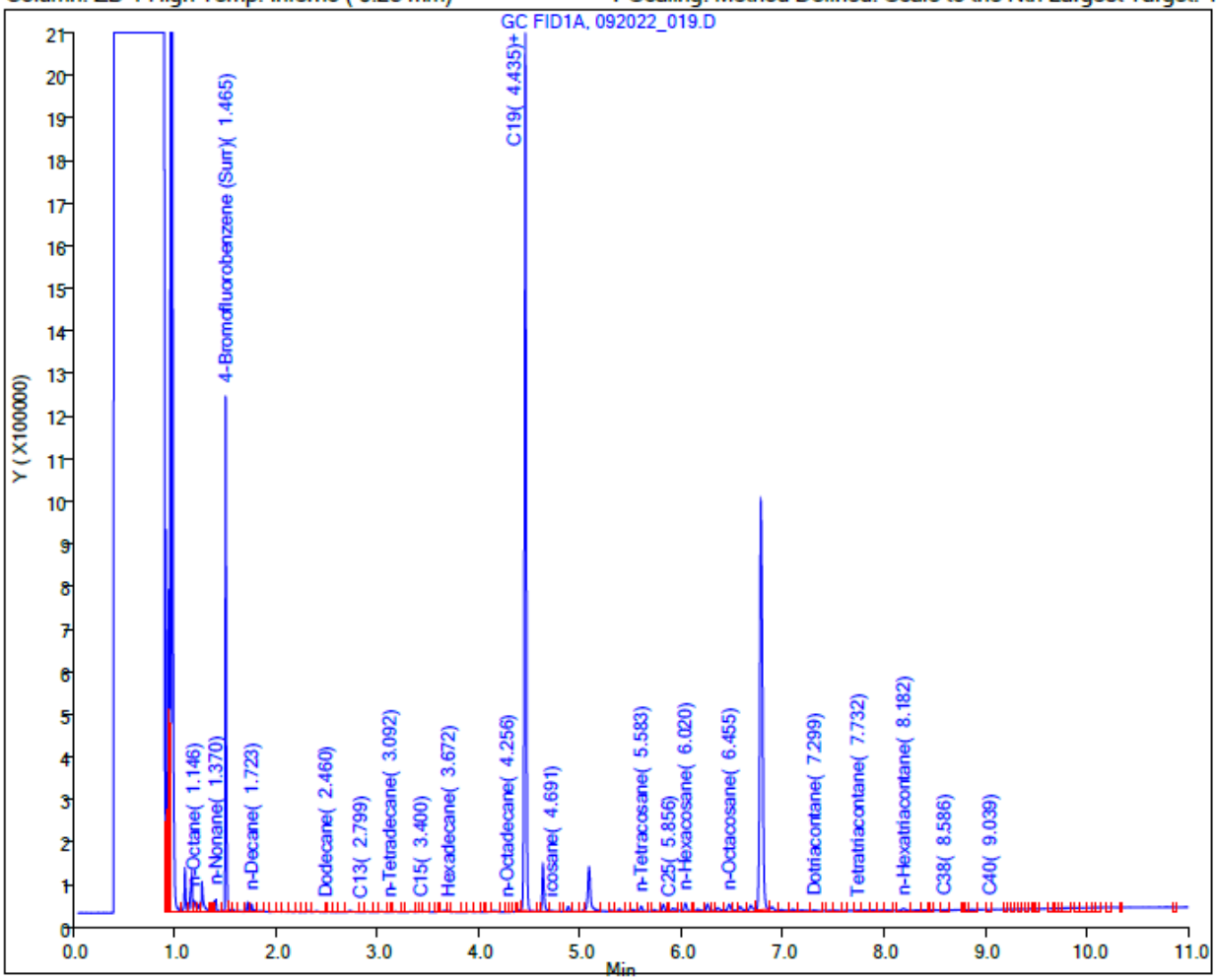
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 21-Sep-2022 13:09:24 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_019.D				
Injection Date:	21-Sep-2022 00:00:30	Instrument ID:	TAC020		
Lims ID:	580-117905-E-9-A	Lab Sample ID:	580-117905-9		
Client ID:	RHMW13-05-WGN01G-2209WK2				
Operator ID:	DH	ALS Bottle#:	18	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW13-05 Sample ID: RHMW13-05-WGN01G-2209WK4 Sample Date: 9/28/2022

Lab: Eurofins Seattle

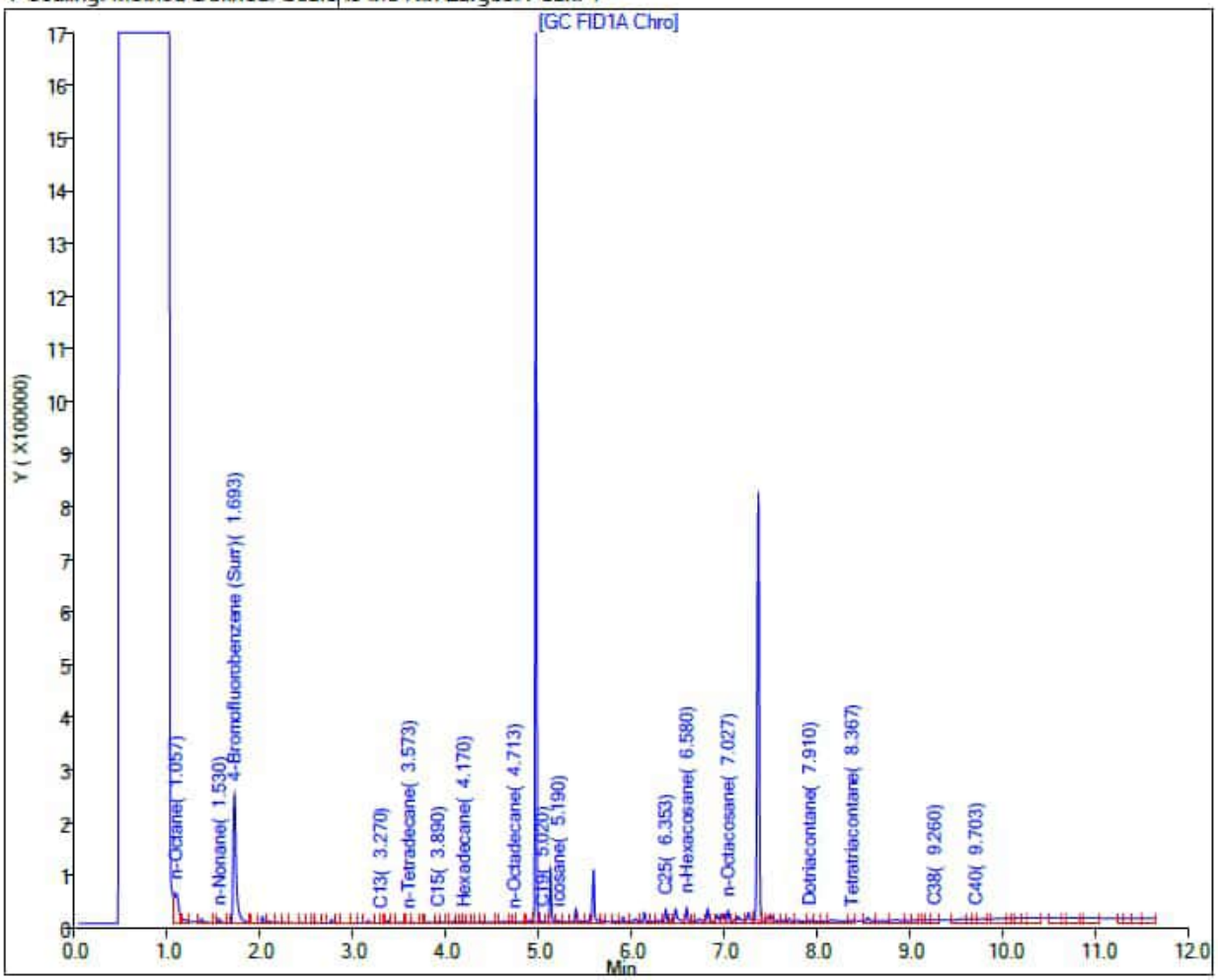
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 05-Oct-2022 12:40:01 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\1004A22A036.D				
Injection Date:	04-Oct-2022 23:34:34	Instrument ID:	TAC129		
Lims ID:	580-118384-D-4-A	Lab Sample ID:	580-118384-4		
Client ID:	RHMW13-05-WGN01G-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW13-05 Sample ID: RHMW13-05-WGN01G-2210WK1 Sample Date: 10/6/2022

Lab: Eurofins Seattle

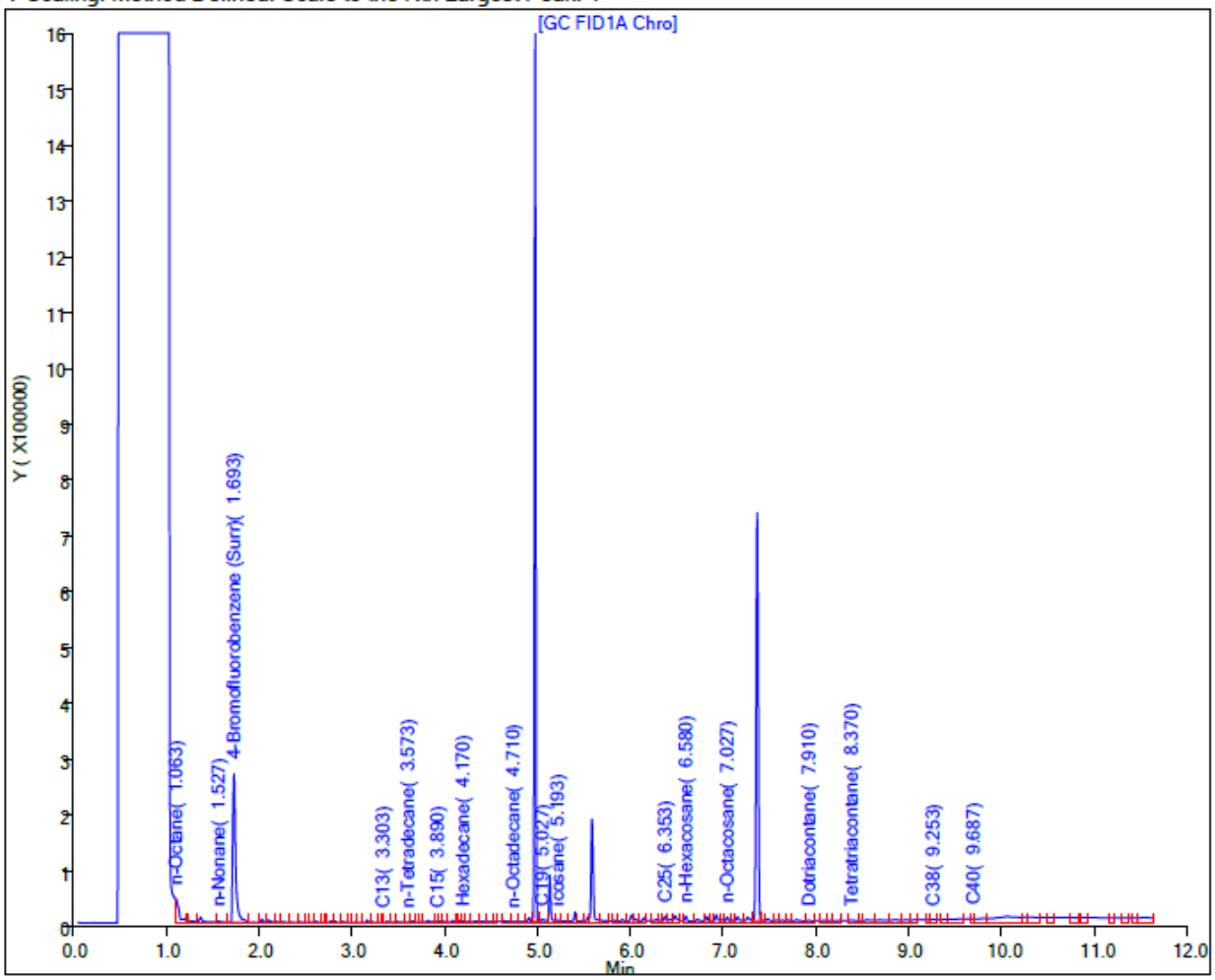
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 12-Oct-2022 13:56:44 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A030.D				
Injection Date:	11-Oct-2022 21:32:59	Instrument ID:	TAC129		
Lims ID:	580-118671-Q-1-A	Lab Sample ID:	580-118671-1		
Client ID:	RHMW13-05-WGN01G-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	45
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW14-03 Sample ID: RHMW14-03-WGN01G-2208WK2 Sample Date: 8/13/2022

Lab: Eurofins Seattle

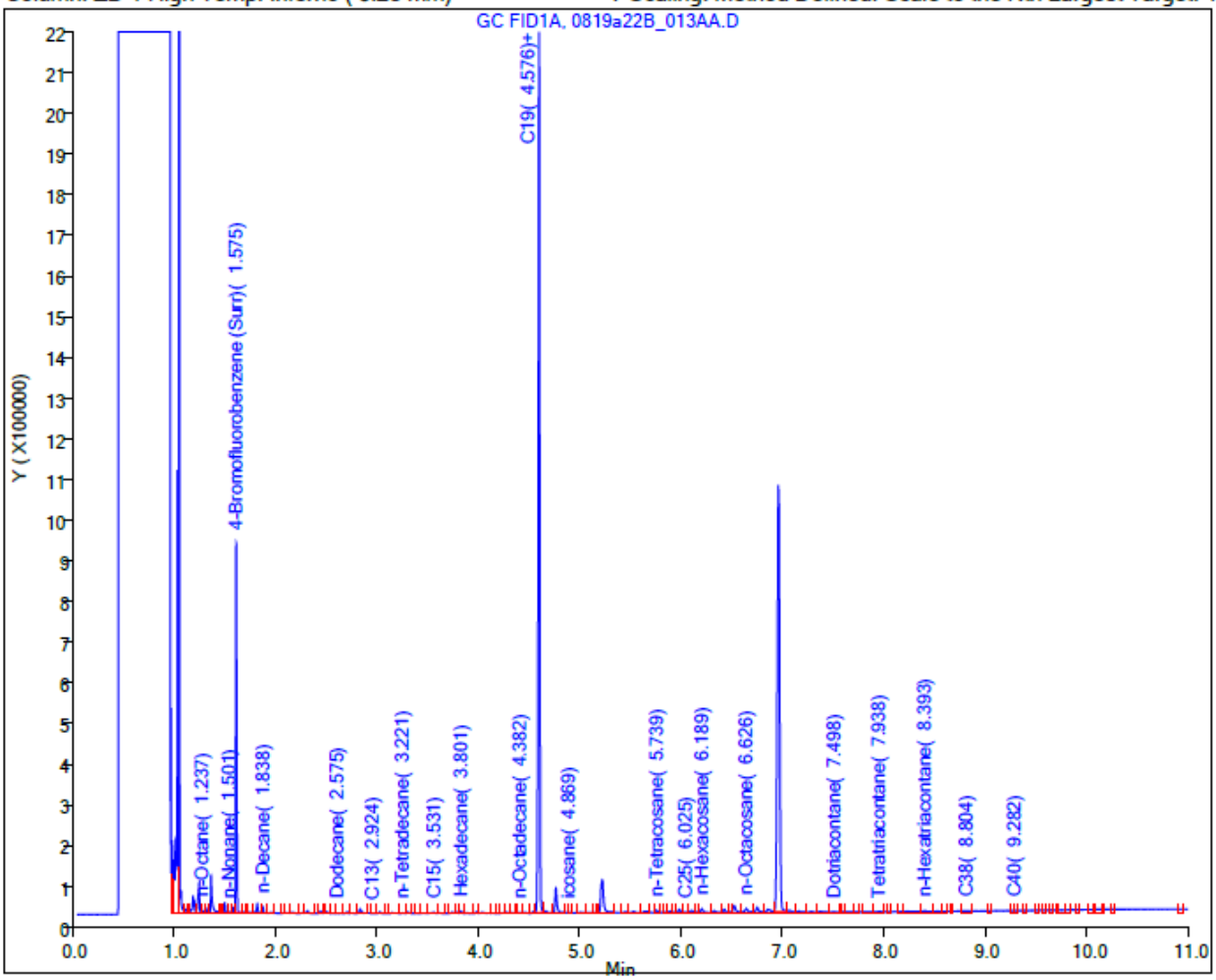
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 22-Aug-2022 23:00:14 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220819-84403.b\0819a22B_013AA.D				
Injection Date:	20-Aug-2022 01:49:30	Instrument ID:	TAC020		
Lims ID:	580-116979-F-9-A	Lab Sample ID:	580-116979-9		
Client ID:	RHMW14-03-WGN01G-2208WK2				
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW14-03 Sample ID: RHMW14-03-WGN01G-2208WK3 Sample Date: 8/16/2022

Lab: Eurofins Seattle

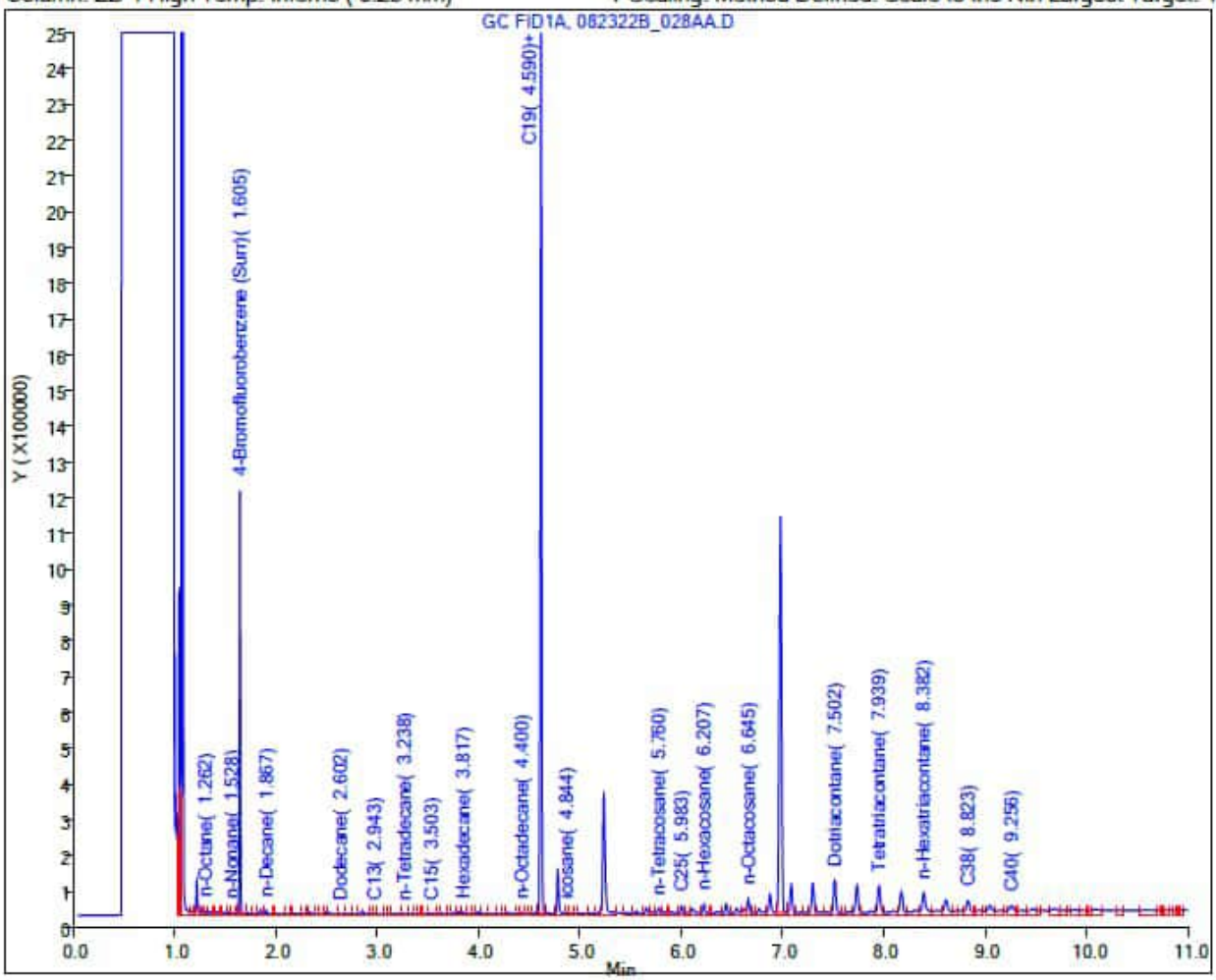
Results (ug/L): TPH-d (C10 to C24 <100 U TPH-o (C24 to C40) <300 U

Report Date: 24-Aug-2022 09:25:46 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_028AA.D				
Injection Date:	24-Aug-2022 03:07:30	Instrument ID:	TAC020		
Lims ID:	580-117032-D-1-A	Lab Sample ID:	580-117032-1		
Client ID:	RHMW14-03-WGN01G-2208WK3				
Operator ID:	DH	ALS Bottle#:	28	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW14-03 Sample ID: RHMW14-03-WGN01G-2208WK4 Sample Date: 8/22/2022

Lab: Eurofins Seattle

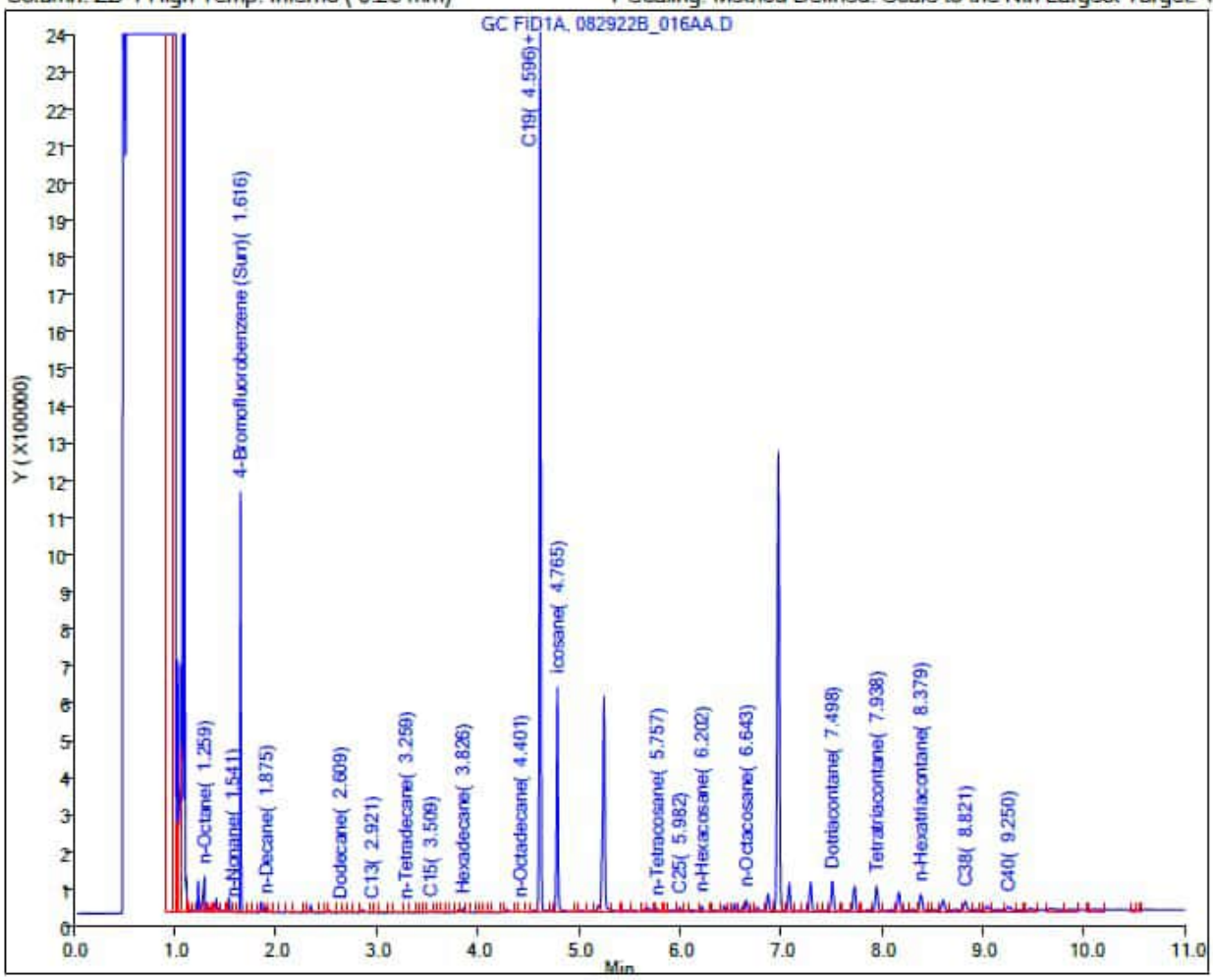
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 30-Aug-2022 12:44:19 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220829-84555.b\082922B_016AA.D				
Injection Date:	30-Aug-2022 00:30:30	Instrument ID:	TAC020		
Lims ID:	580-117203-C-11-A	Lab Sample ID:	580-117203-11		
Client ID:	RHMW14-03-WGN01G-2208WK4				
Operator ID:	DH	ALS Bottle#:	15	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW14-03 Sample ID: RHMW14-03-WGN01G-2208WK5 Sample Date: 8/29/2022

Lab: Eurofins Seattle

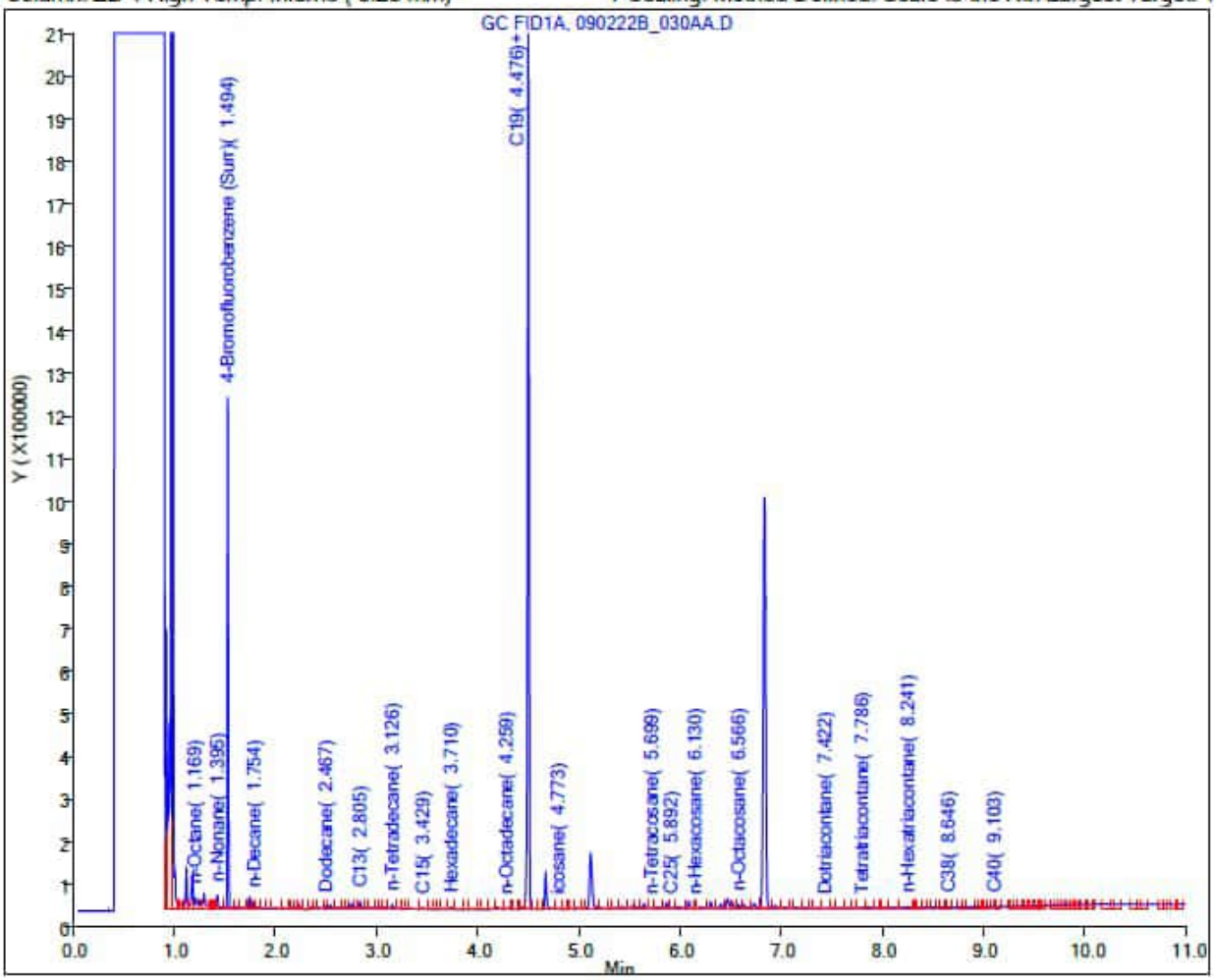
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 06-Sep-2022 14:19:55 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_030AA.D				
Injection Date:	03-Sep-2022 08:03:30	Instrument ID:	TAC020		
Lims ID:	580-117450-F-3-A	Lab Sample ID:	580-117450-3		
Client ID:	RHMW14-03-WGN01G-2208WK5				
Operator ID:	DH	ALS Bottle#:	29	Worklist Smp#:	87
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW14-03 Sample ID: RHMW14-03-WGN01G-2209WK3 Sample Date: 9/20/2022

Lab: Eurofins Seattle

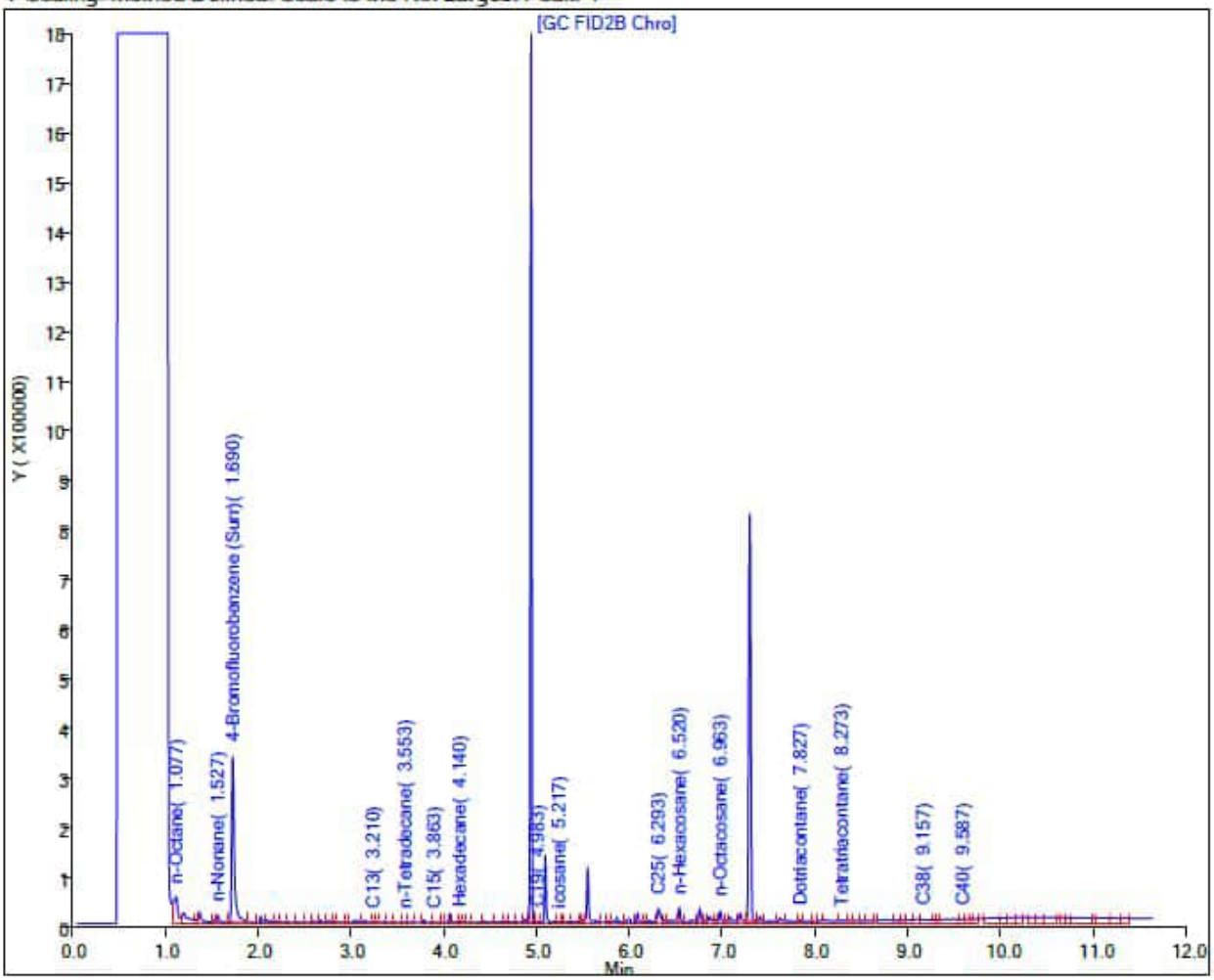
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 27-Sep-2022 18:26:30 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A013.D				
Injection Date:	27-Sep-2022 17:40:50	Instrument ID:	TAC129_R		
Lims ID:	580-118153-D-1-A	Lab Sample ID:	580-118153-1		
Client ID:	RHMW14-03-WGN01G-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW14-03 Sample ID: RHMW14-03-WGN01G-2209WK4 Sample Date: 9/27/2022

Lab: Eurofins Seattle

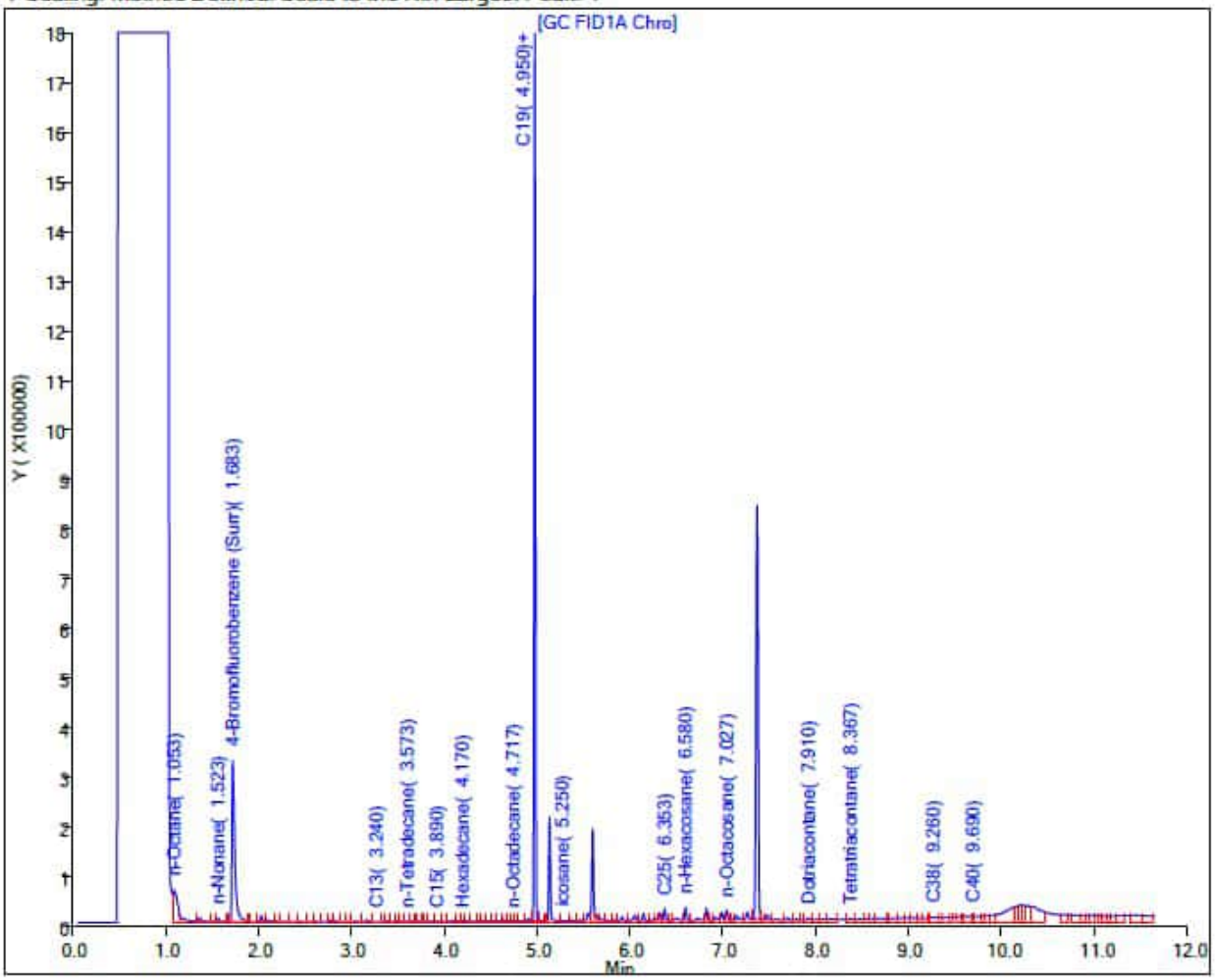
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 03-Oct-2022 13:37:12 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A030.D				
Injection Date:	30-Sep-2022 23:53:17	Instrument ID:	TAC129		
Lims ID:	580-118344-D-5-A	Lab Sample ID:	580-118344-5		
Client ID:	RHMW14-03-WGN01G-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW15-05 Sample ID: RHMW15-05-WGN01G-2208WK2 Sample Date: 8/12/2022

Lab: Eurofins Seattle

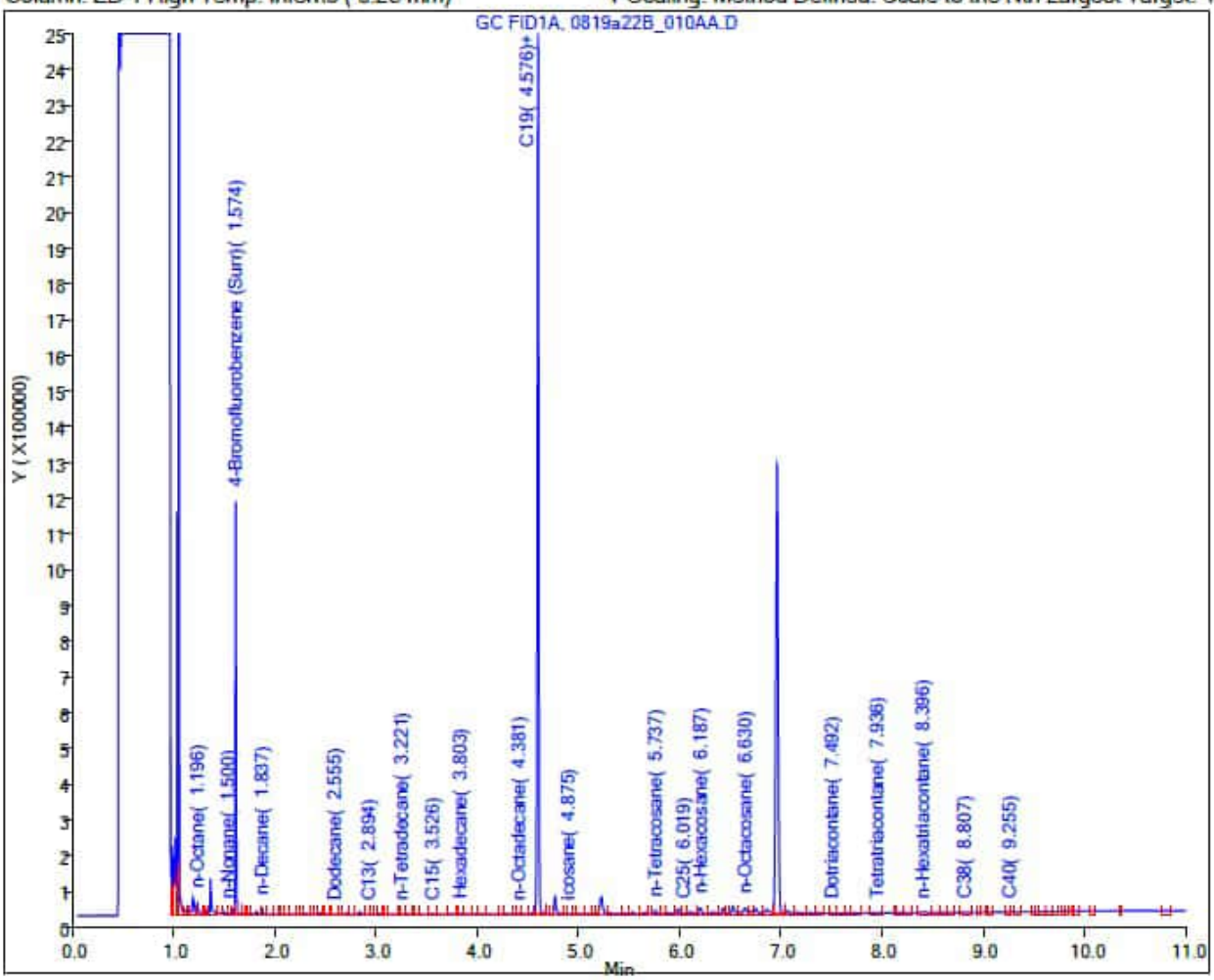
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 22-Aug-2022 23:00:01 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220819-84403.b\0819a22B_010AA.D				
Injection Date:	20-Aug-2022 00:48:30	Instrument ID:	TAC020		
Lims ID:	580-116979-F-3-A	Lab Sample ID:	580-116979-3		
Client ID:	RHMW15-05-WGN01G-2208WK2				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW15-05 Sample ID: RHMW15-05-WGN01G-2208WK3 Sample Date: 8/15/2022

Lab: Eurofins Seattle

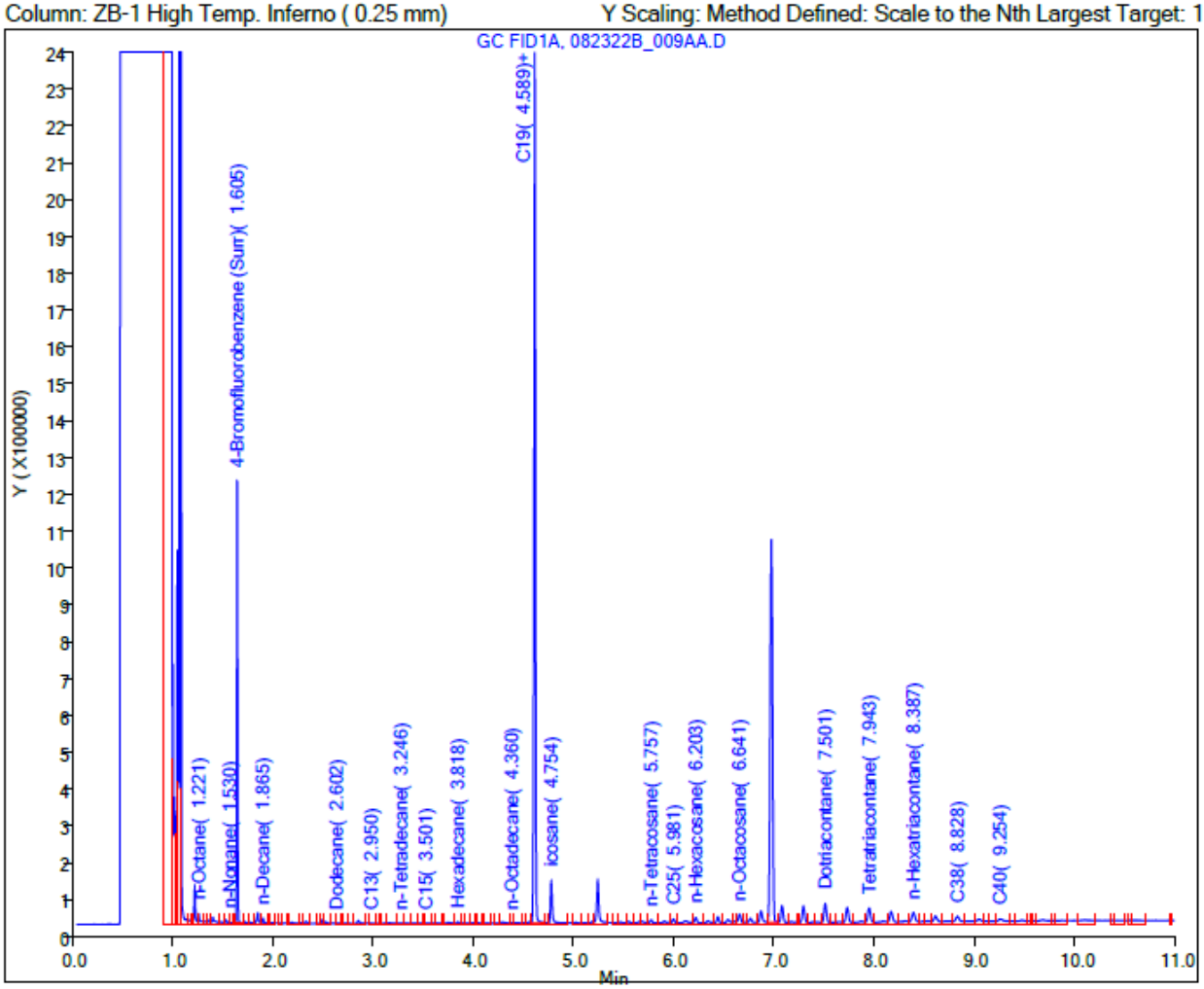
Results (ug/L): TPH-d (C10 to C24) <99 U TPH-o (C24 to C40) <300 U

Report Date: 24-Aug-2022 09:23:49 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_009AA.D				
Injection Date:	23-Aug-2022 20:22:30	Instrument ID:	TAC020		
Lims ID:	580-116979-F-1-A	Lab Sample ID:	580-116979-1		
Client ID:	RHMW15-05-WGN01G-2208WK3				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW15-05 Sample ID: RHMW15-05-WGN01G-2208WK4 Sample Date: 8/23/2022

Lab: Eurofins Seattle

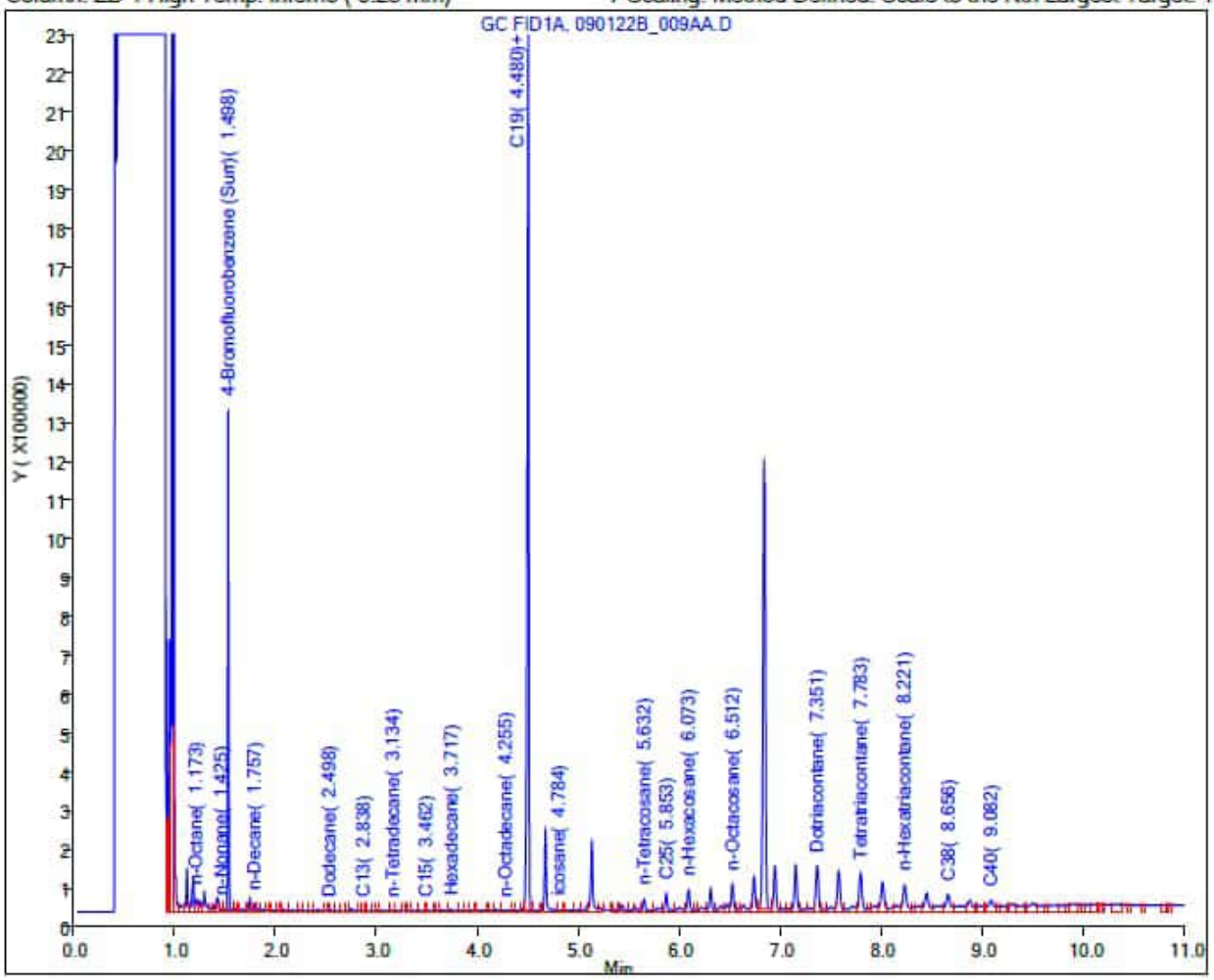
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 02-Sep-2022 22:48:45 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220901-84631.b\090122B_009AA.D				
Injection Date:	02-Sep-2022 00:23:30	Instrument ID:	TAC020		
Lims ID:	580-117247-F-15-A	Lab Sample ID:	580-117247-15		
Client ID:	RHMW15-05-WGN01G-2208WK4				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW15-05 Sample ID: RHMW15-05-WGN01G-2208WK5 Sample Date: 8/30/2022

Lab: Eurofins Seattle

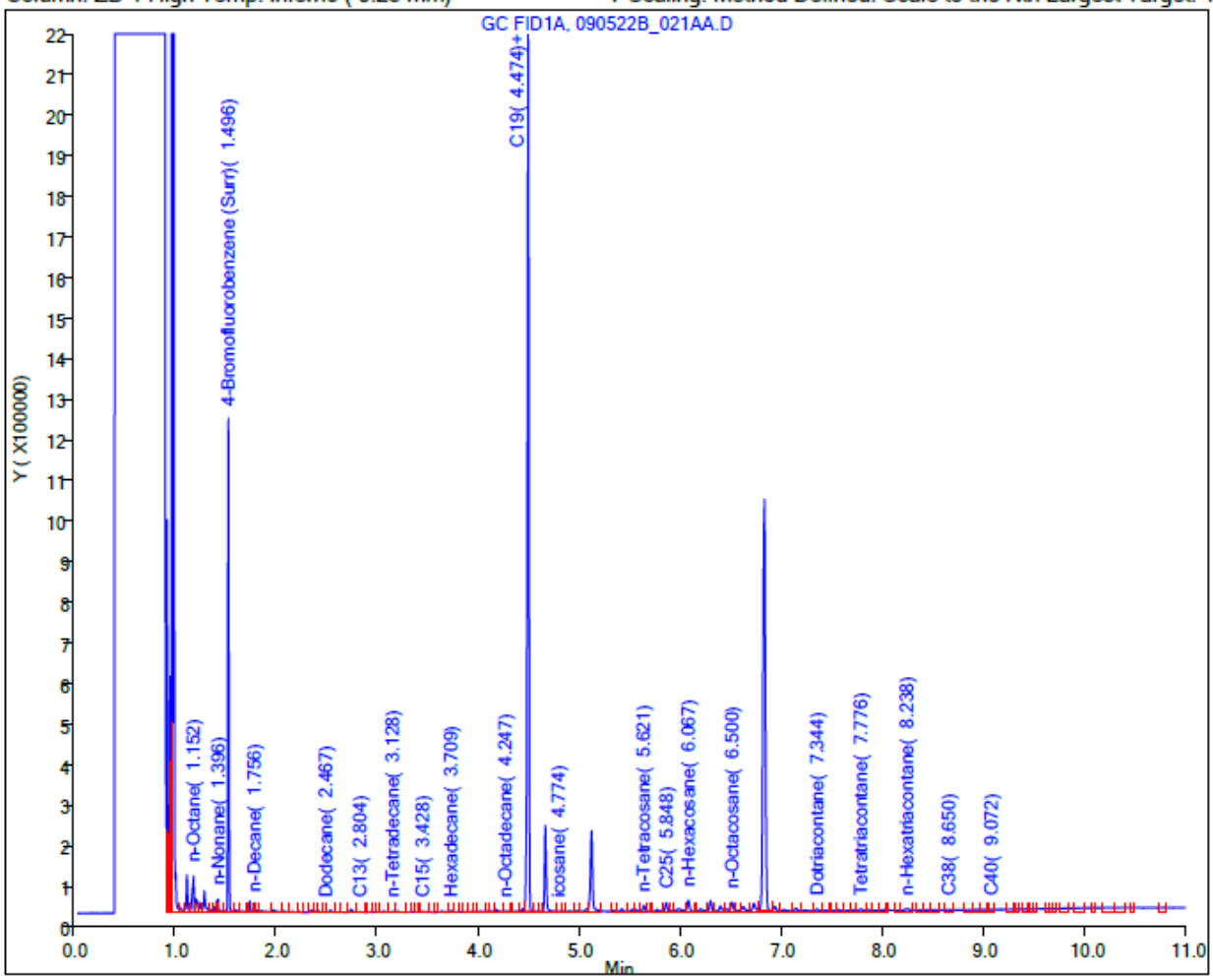
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 08:41:08 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_021AA.D				
Injection Date:	06-Sep-2022 03:43:30	Instrument ID:	TAC020		
Lims ID:	580-117453-E-5-A	Lab Sample ID:	580-117453-5		
Client ID:	RHMW15-05-WGN01G-2208WK5				
Operator ID:	DH	ALS Bottle#:	20	Worklist Smp#:	81
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW15-05 Sample ID: RHMW15-05-WGN01G-2209WK2 Sample Date: 9/12/2022

Lab: Eurofins Seattle

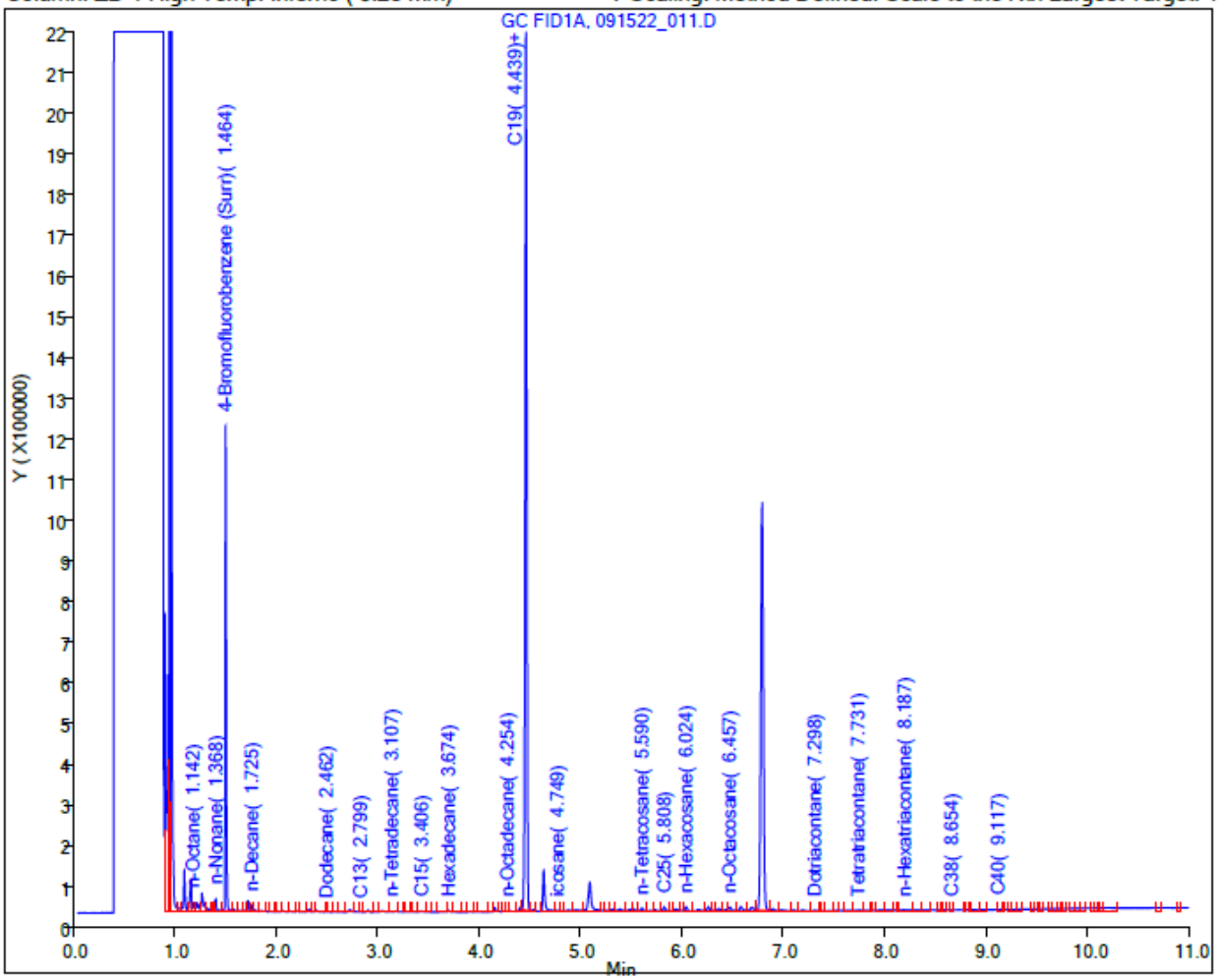
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 16-Sep-2022 14:26:24 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220915-84852.b\091522_011.D				
Injection Date:	15-Sep-2022 21:06:30	Instrument ID:	TAC020		
Lims ID:	580-117798-F-1-A	Lab Sample ID:	580-117798-1		
Client ID:	RHMW15-05-WGN01G-2209WK2				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW16 Sample ID: RHMW16-WGN01LF-2208WK2 Sample Date: 8/9/2022

Lab: Eurofins Seattle

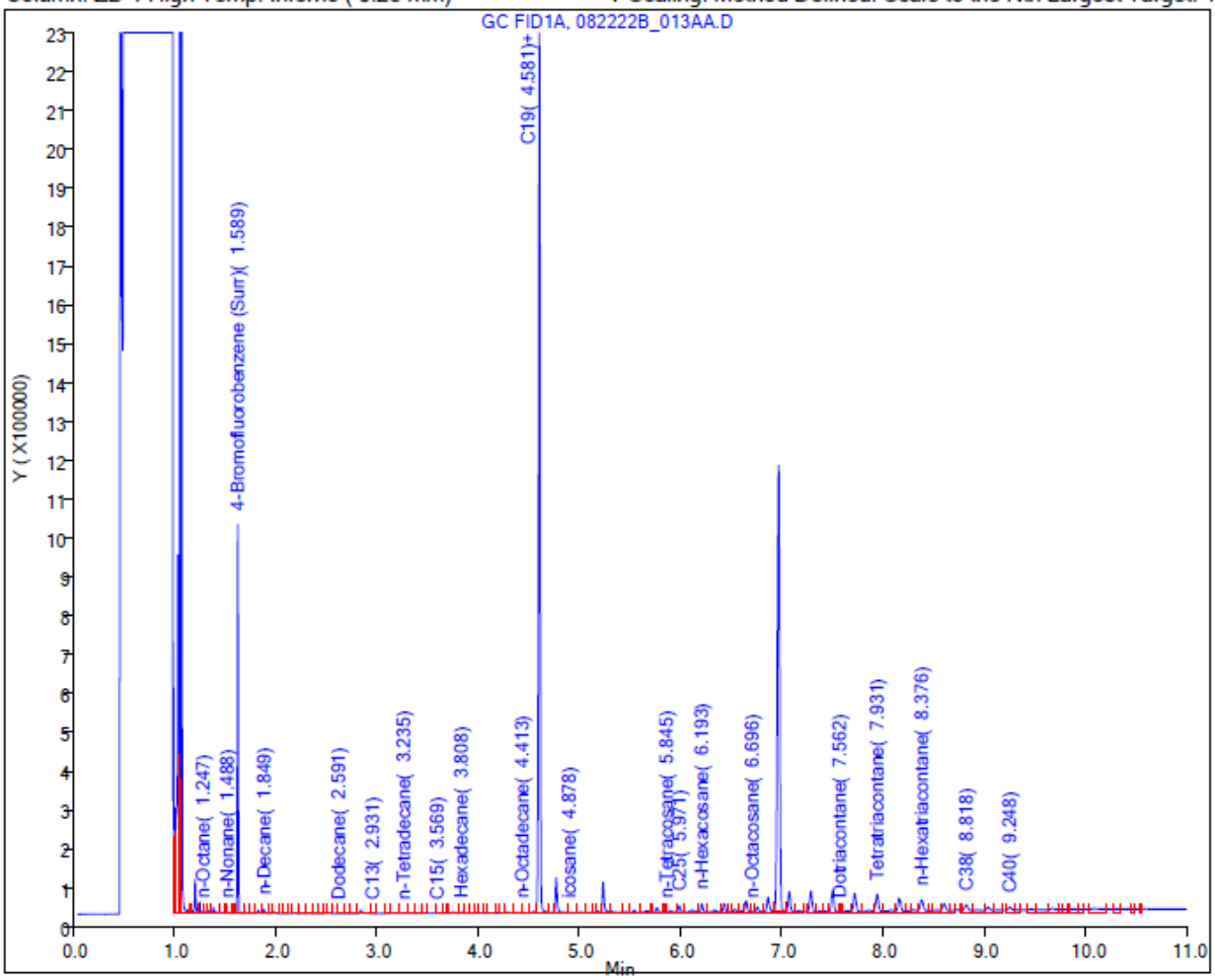
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 23-Sep-2022 15:06:15 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220822-84439.b\082222B_013AA.D				
Injection Date:	22-Aug-2022 20:07:30	Instrument ID:	TAC020		
Lims ID:	580-116809-E-3-A	Lab Sample ID:	580-116809-3		
Client ID:	RHMW16-WGN01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW16 Sample ID: RHMW16-WGN01LF-2208WK3 Sample Date: 8/16/2022

Lab: Eurofins Seattle

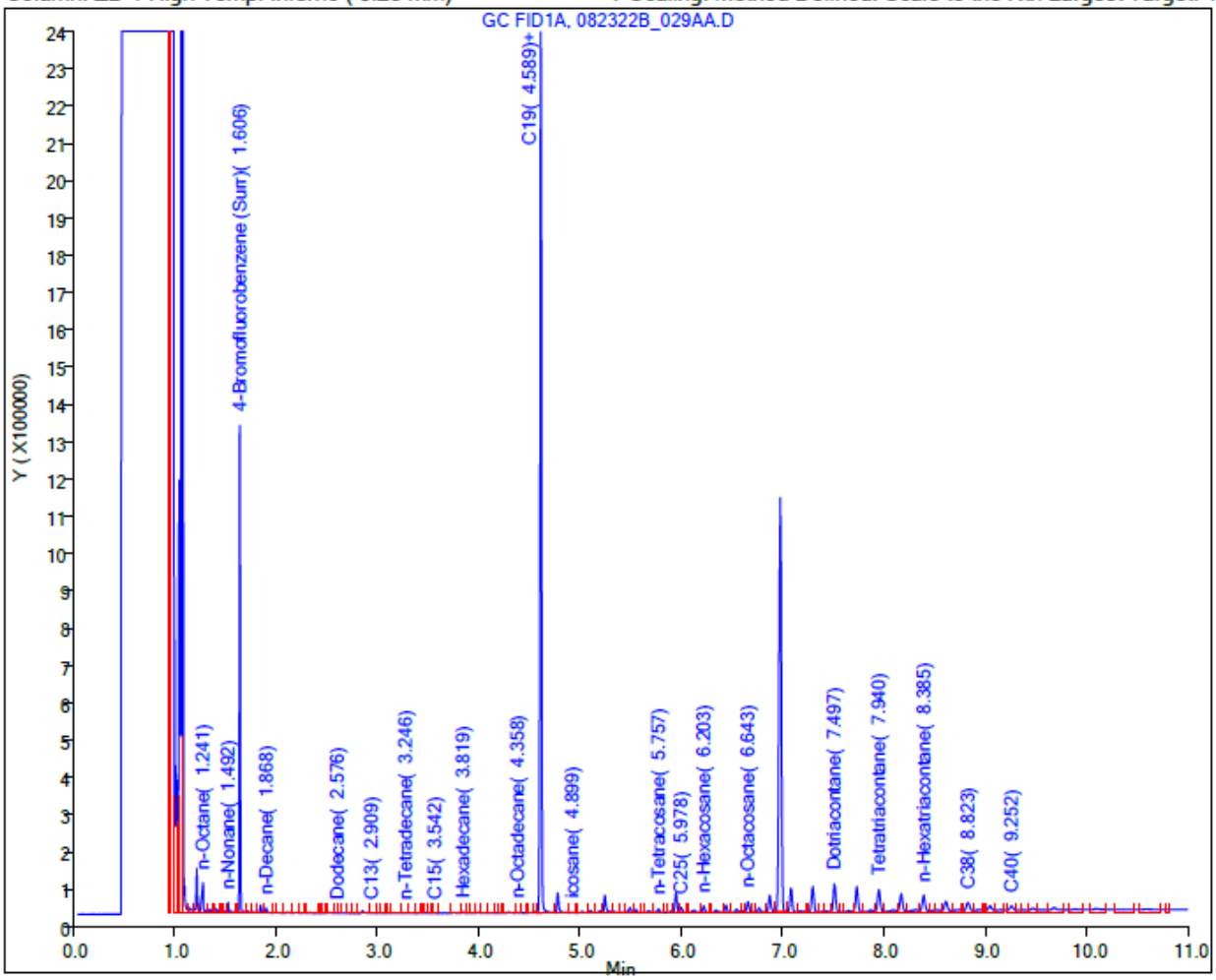
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 24-Aug-2022 09:25:51 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_029AA.D				
Injection Date:	24-Aug-2022 03:27:30	Instrument ID:	TAC020		
Lims ID:	580-117032-D-5-A	Lab Sample ID:	580-117032-5		
Client ID:	RHMW16-WGN01LF-2208WK3				
Operator ID:	DH	ALS Bottle#:	29	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW16 Sample ID: RHMW16-WGN01LF-2208WK5 Sample Date: 9/1/2022

Lab: Eurofins Seattle

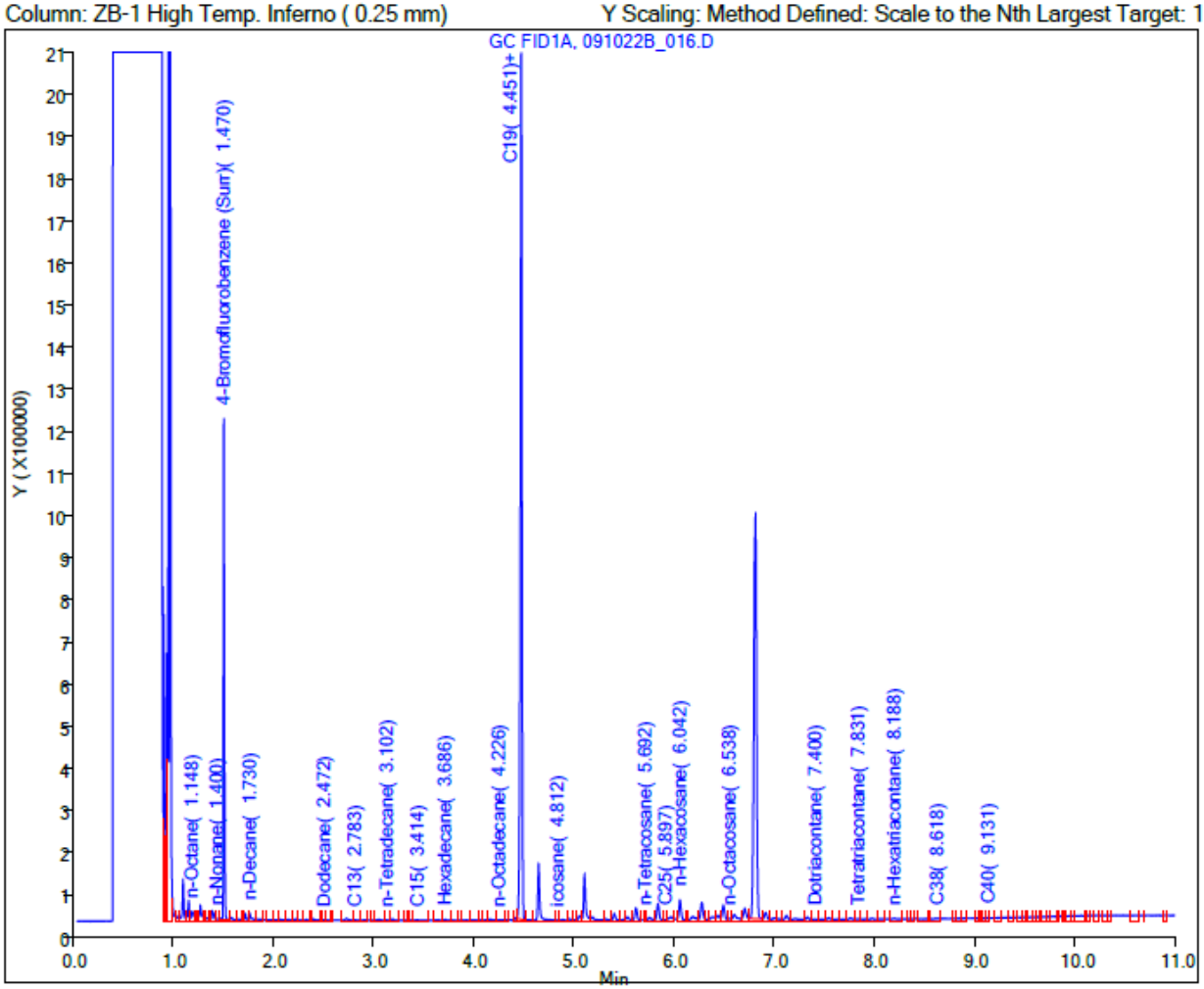
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 13:12:31 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220909-84751.b\091022B_016.D				
Injection Date:	10-Sep-2022 03:09:30	Instrument ID:	TAC020		
Lims ID:	580-117596-C-4-A	Lab Sample ID:	580-117596-4		
Client ID:	RHMW16-WGN01LF-2208WK5				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW16 Sample ID: RHMW16-WGN01LF-2209WK3 Sample Date: 9/22/2022

Lab: Eurofins Seattle

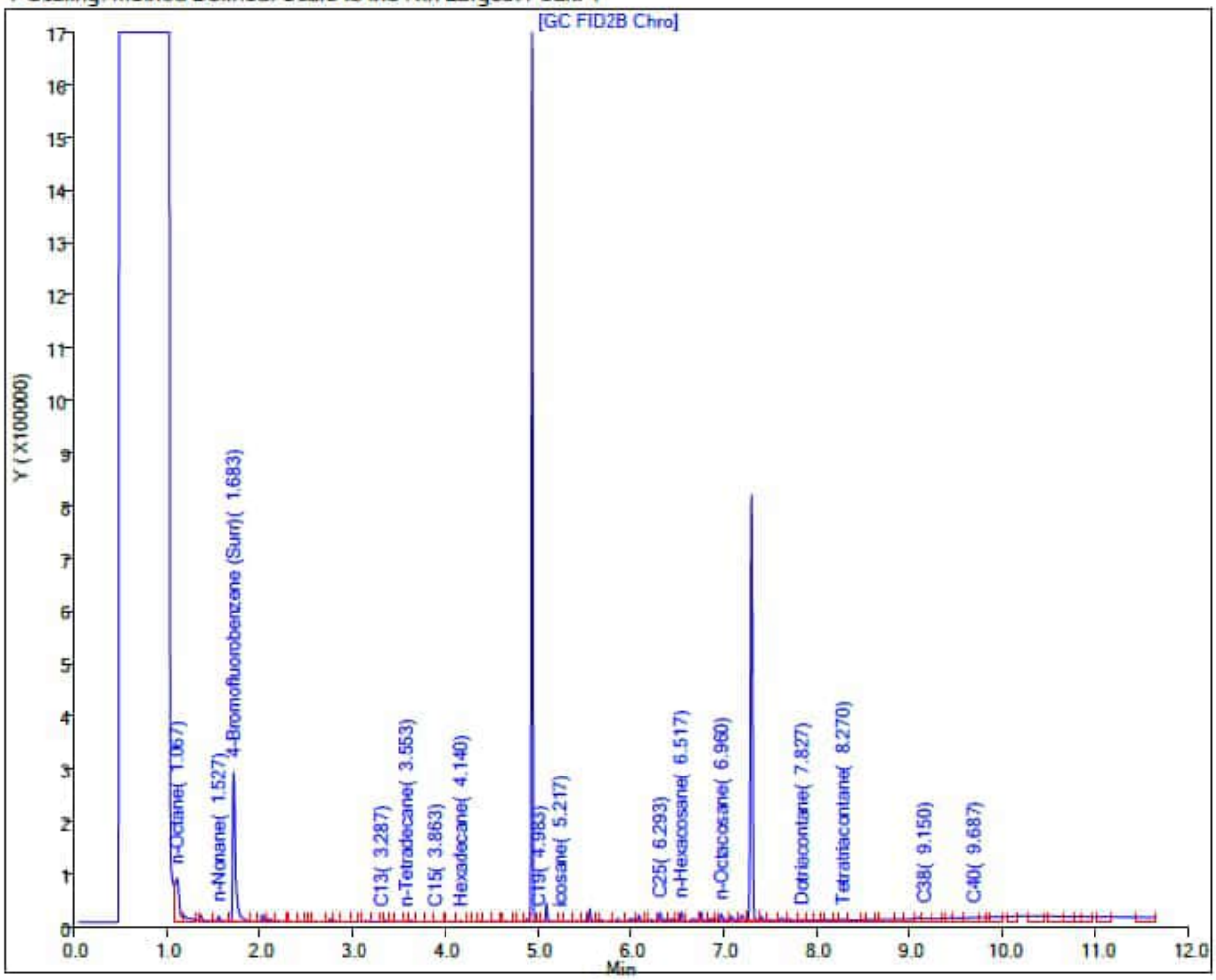
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 29-Sep-2022 15:58:44 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220928-85077.b\092822A017.D				
Injection Date:	28-Sep-2022 20:07:33	Instrument ID:	TAC129_R		
Lims ID:	580-118243-C-1-A	Lab Sample ID:	580-118243-1		
Client ID:	RHMW16-WGN01LF-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW16 Sample ID: RHMW16-WGN01LF-2209WK4 Sample Date: 9/27/2022

Lab: Eurofins Seattle

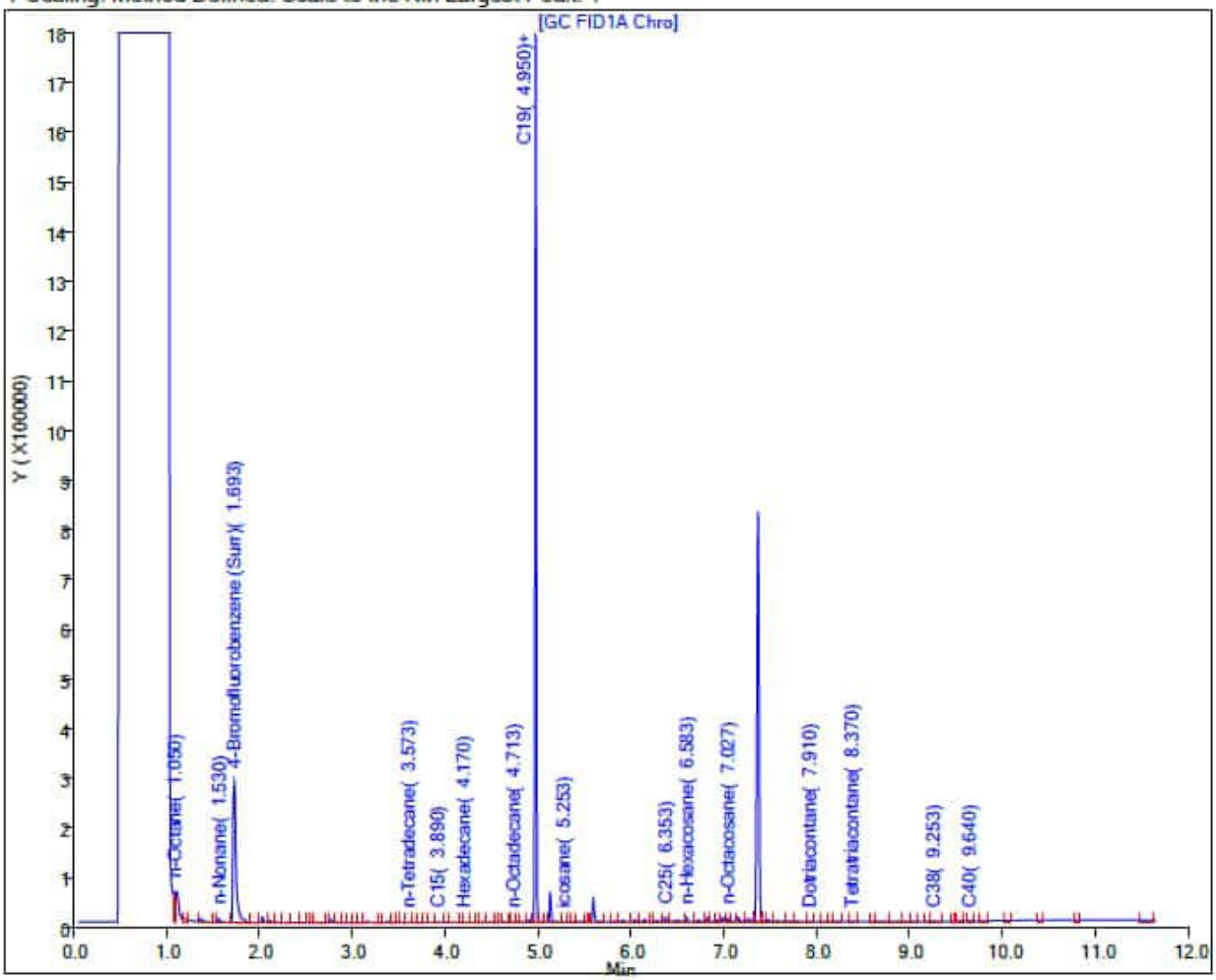
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 03-Oct-2022 13:36:56 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A022.D				
Injection Date:	30-Sep-2022 22:37:53	Instrument ID:	TAC129		
Lims ID:	580-118302-E-1-A	Lab Sample ID:	580-118302-1		
Client ID:	RHMW16-WGN01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW17 Sample ID: RHMW17-WGN01B-2208WK2 Sample Date: 8/10/2022

Lab: Eurofins Seattle

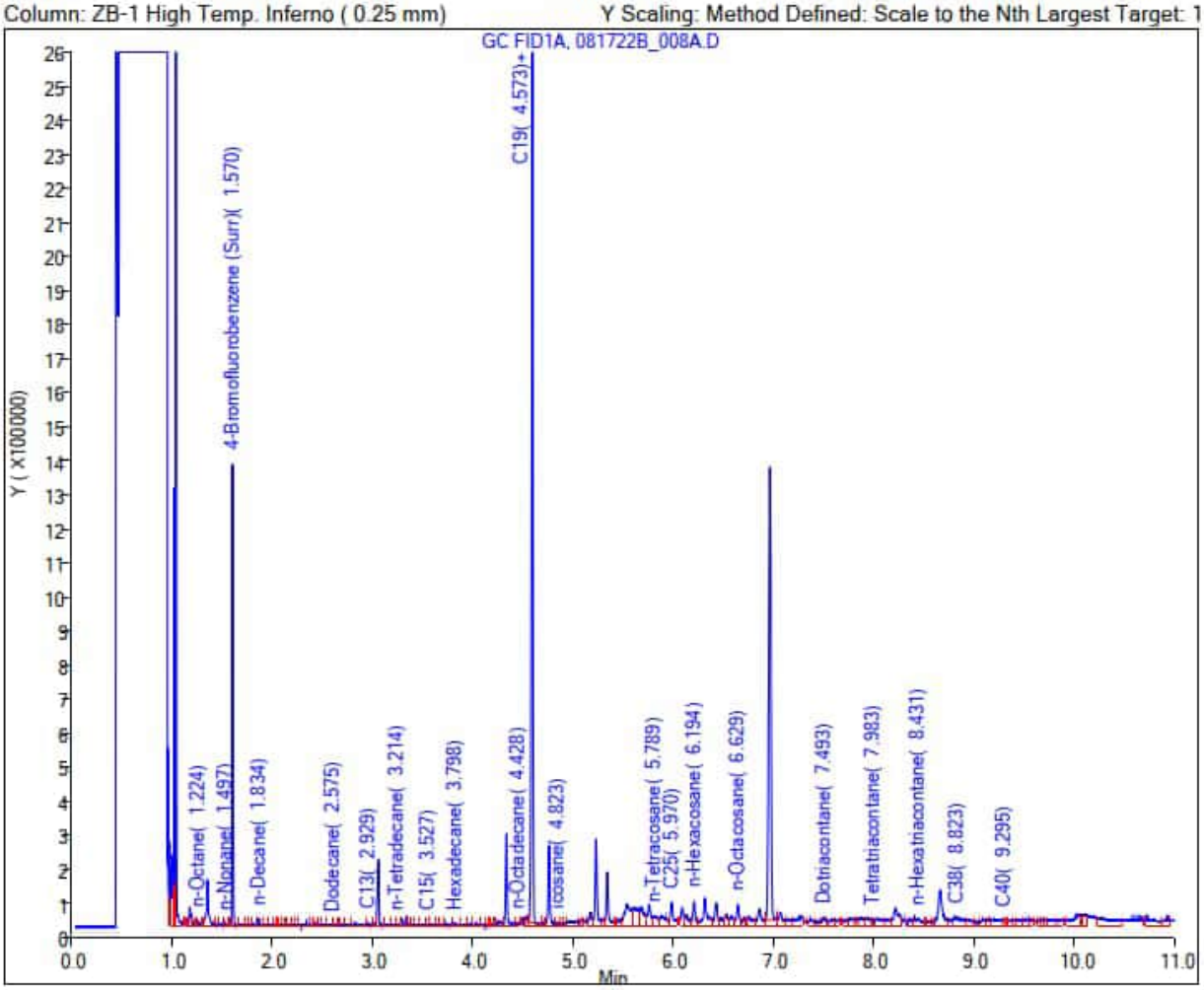
Results (ug/L): TPH-d (C10 to C24) 100 J TPH-o (C24 to C40) <300 U

Report Date: 18-Aug-2022 11:45:40 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220817-84355.b\081722B_008A.D				
Injection Date:	17-Aug-2022 23:20:30	Instrument ID:	TAC020		
Lims ID:	580-116857-F-3-A	Lab Sample ID:	580-116857-3		
Client ID:	RHMW17-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



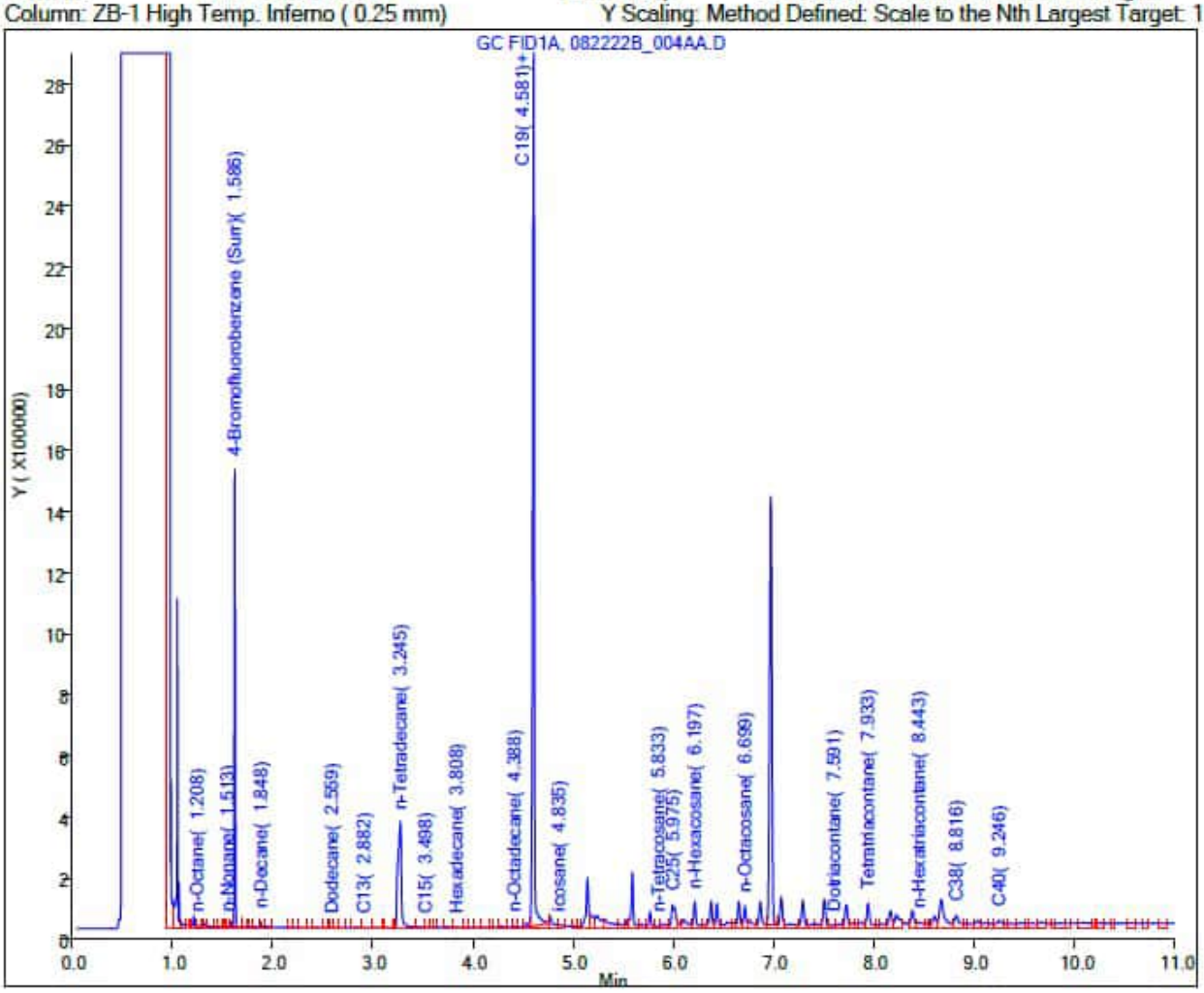
Results (ug/L): TPH-d SGC (C10 to C24) 76 J TPH-o SGC (C24 to C40) <300 U

Report Date: 22-Aug-2022 20:40:31 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220822-84439.b\082222B_004AA.D				
Injection Date:	22-Aug-2022 17:03:30	Instrument ID:	TAC020		
Lims ID:	580-116857-F-3-B	Lab Sample ID:	580-116857-3		
Client ID:	RHMW17-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW17 Sample ID: RHMW17-WGN01B-2208WK5 Sample Date: 8/31/2022

Lab: Eurofins Seattle

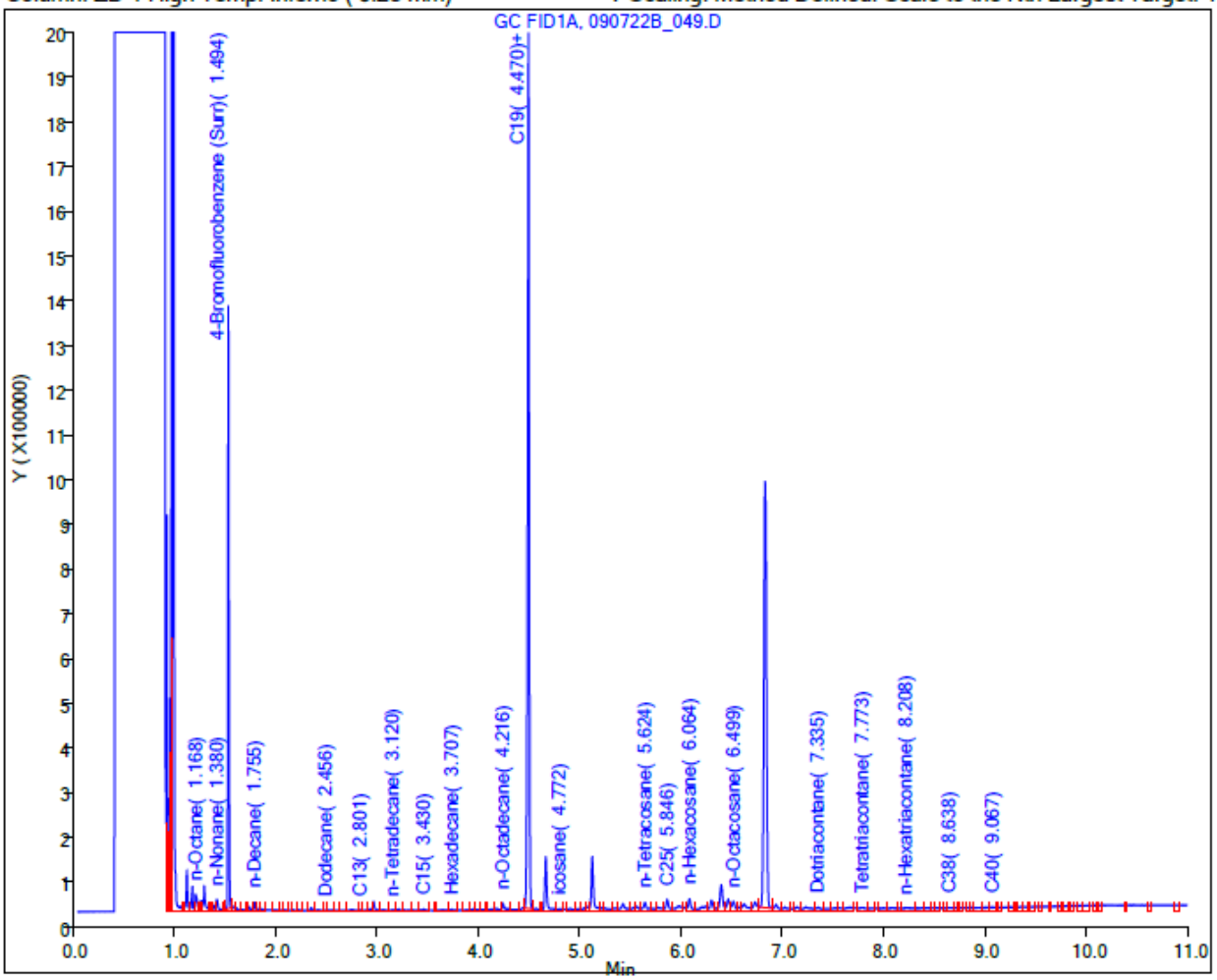
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 08-Sep-2022 16:31:04 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220907-84710.b\090722B_049.D				
Injection Date:	08-Sep-2022 15:46:30	Instrument ID:	TAC020		
Lims ID:	580-117596-D-6-C	Lab Sample ID:	580-117596-6		
Client ID:	RHMW17-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	48	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW17 Sample ID: RHMW17-WGN01B-2209WK2 Sample Date: 9/14/2022

Lab: Eurofins Seattle

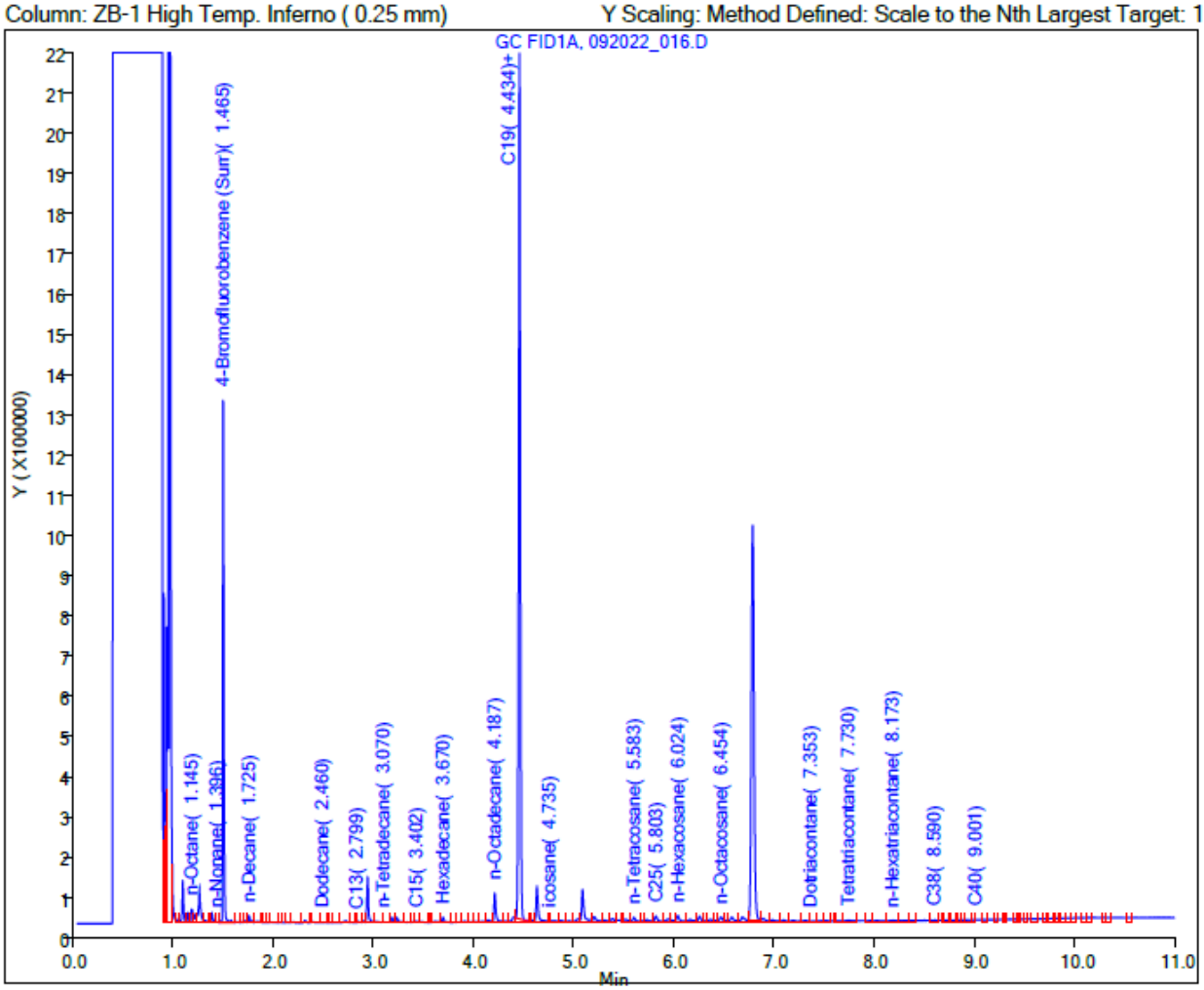
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 21-Sep-2022 13:09:02 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_016.D				
Injection Date:	20-Sep-2022 23:00:30	Instrument ID:	TAC020		
Lims ID:	580-117905-E-3-A	Lab Sample ID:	580-117905-3		
Client ID:	RHMW17-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	15	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW17 Sample ID: RHMW17-WGN01B-2209WK4 Sample Date: 9/28/2022

Lab: Eurofins Seattle

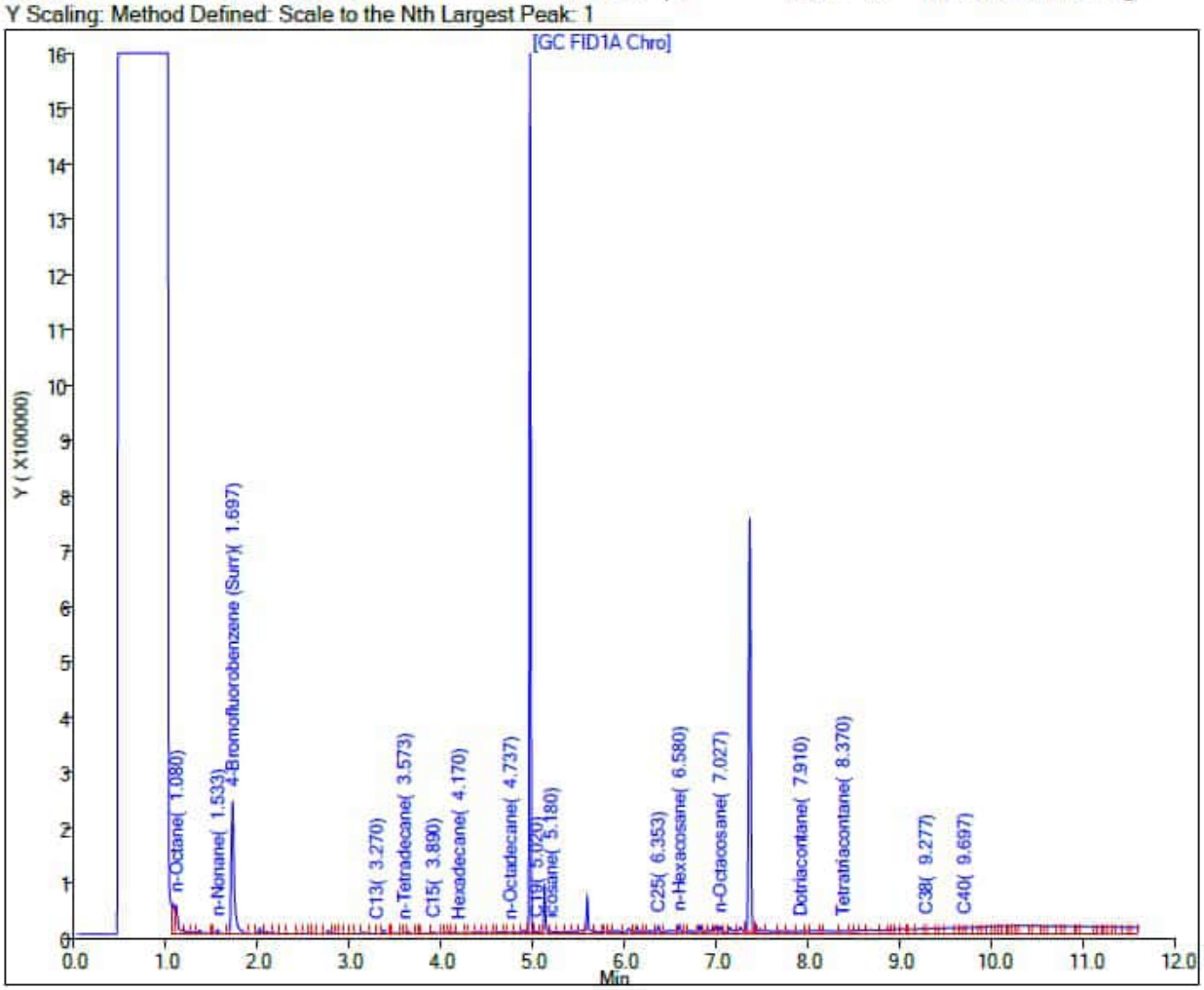
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 05-Oct-2022 12:40:14 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\1004A22A044.D				
Injection Date:	05-Oct-2022 00:50:07	Instrument ID:	TAC129		
Lims ID:	580-118384-D-10-A	Lab Sample ID:	580-118384-10		
Client ID:	RHMW17-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW19 Sample ID: RHMW19-WGN01B-2208WK3 Sample Date: 8/15/2022

Lab: Eurofins Seattle

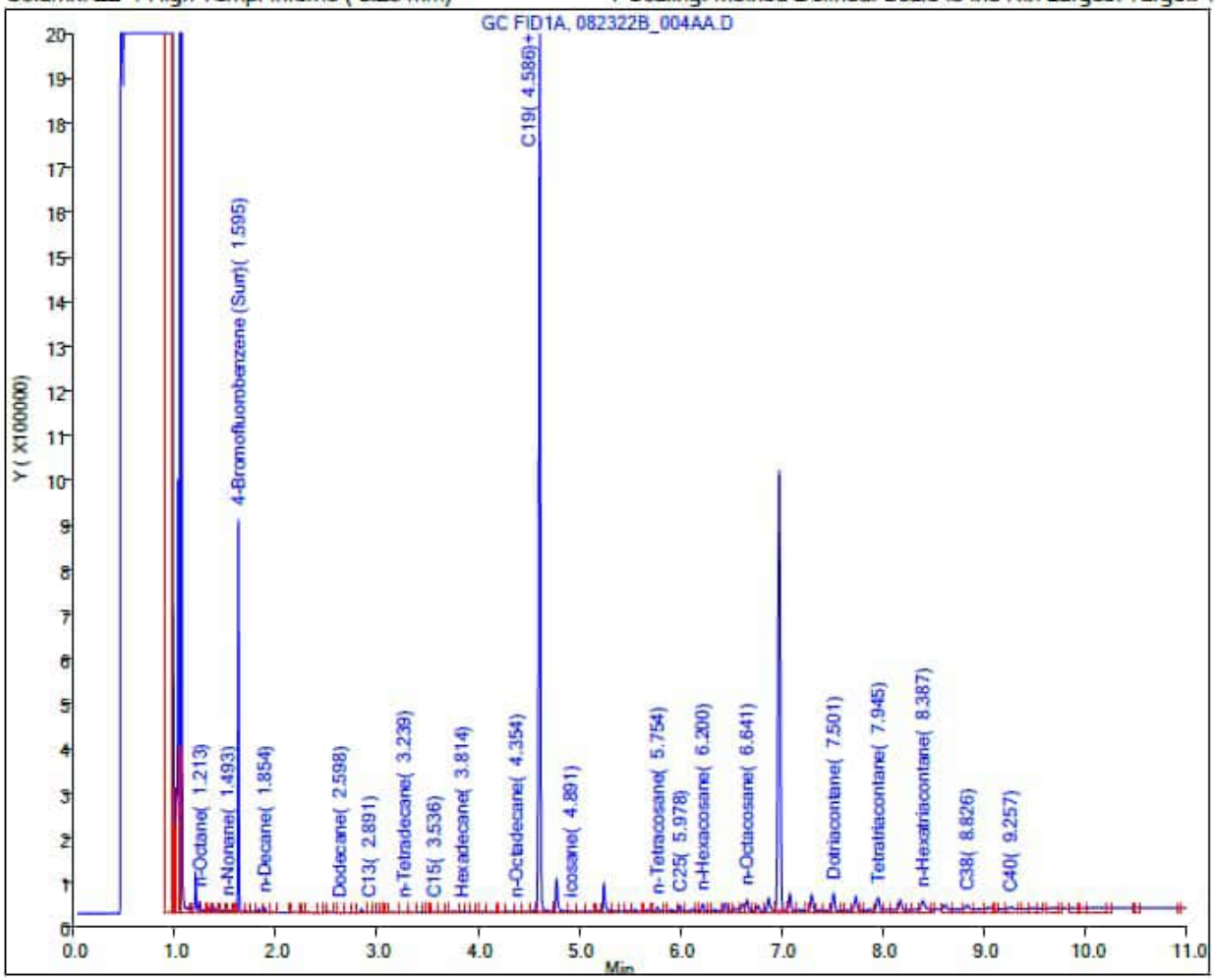
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 24-Aug-2022 09:23:21 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_004AA.D				
Injection Date:	23-Aug-2022 18:42:30	Instrument ID:	TAC020		
Lims ID:	580-116988-C-1-A	Lab Sample ID:	580-116988-1		
Client ID:	RHMW19-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW19 Sample ID: RHMW19-WGN01B-2208WK4 Sample Date: 8/22/2022

Lab: Eurofins Seattle

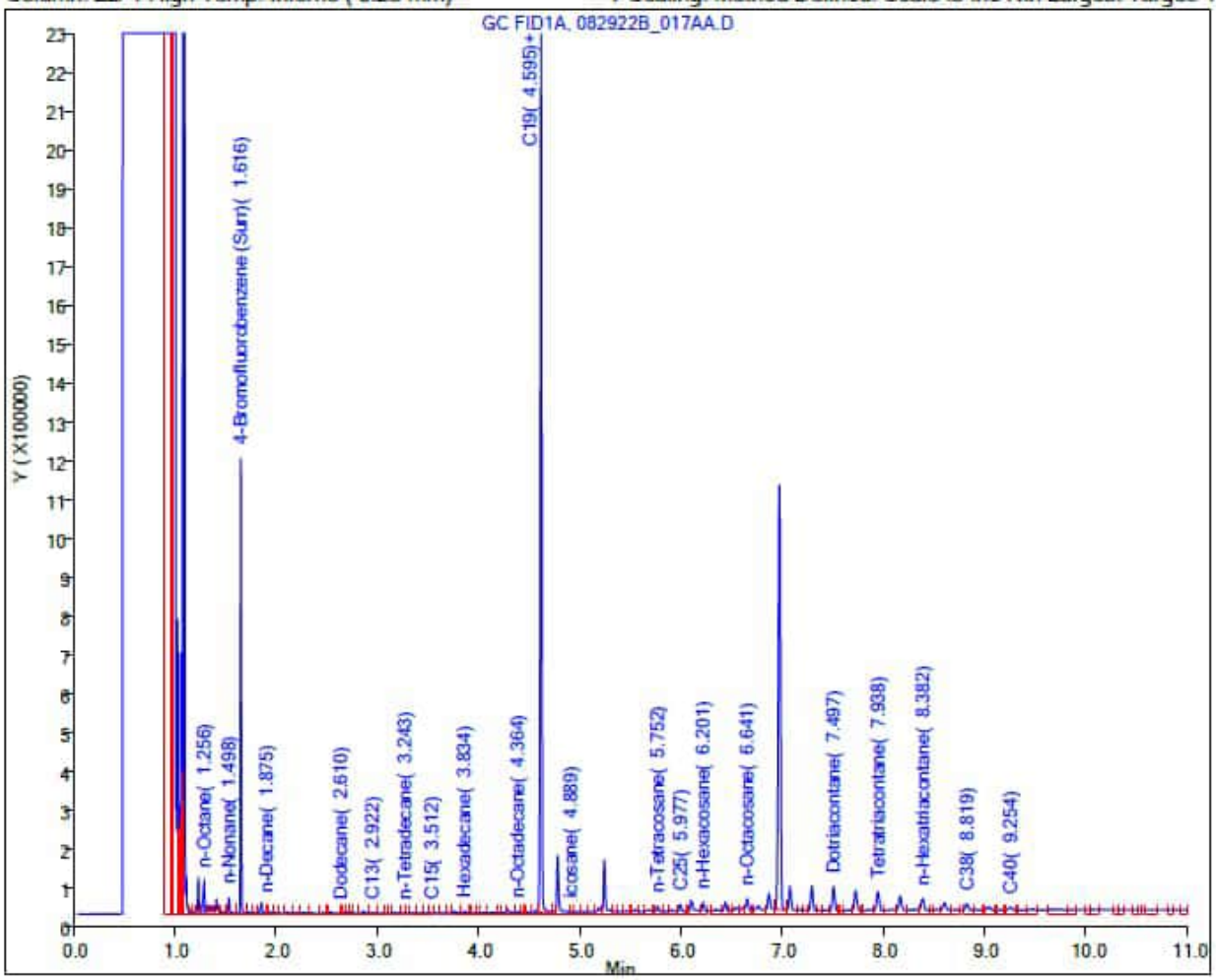
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 30-Aug-2022 12:44:25 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220829-84555.b\082922B_017AA.D				
Injection Date:	30-Aug-2022 00:50:30	Instrument ID:	TAC020		
Lims ID:	580-117203-C-15-A	Lab Sample ID:	580-117203-15		
Client ID:	RHMW19-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	16	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW19 Sample ID: RHMW19-WGN01B-2208WK5 Sample Date: 8/29/2022

Lab: Eurofins Seattle

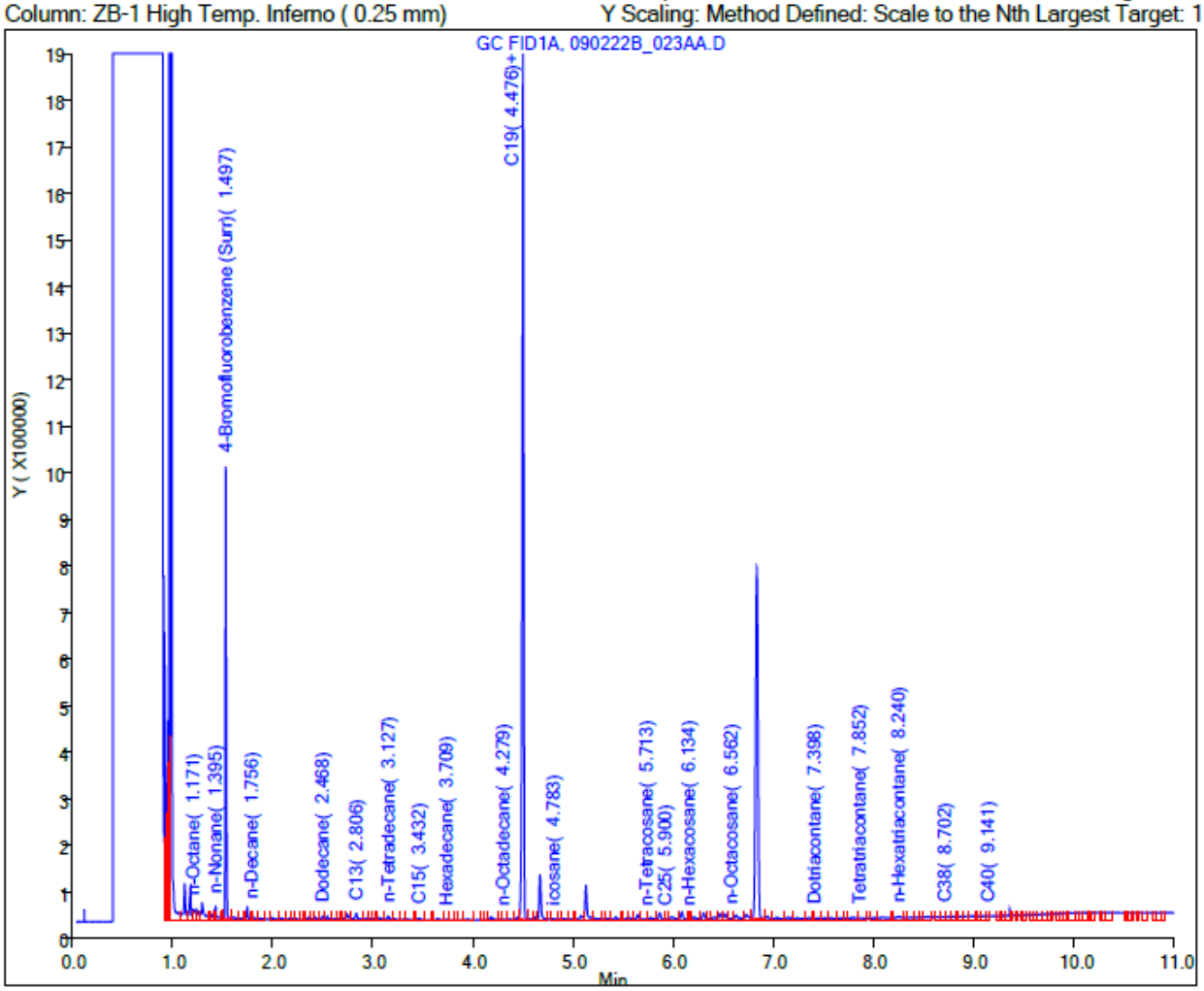
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 06-Sep-2022 14:18:17 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_023AA.D				
Injection Date:	03-Sep-2022 05:42:30	Instrument ID:	TAC020		
Lims ID:	580-117408-N-1-A	Lab Sample ID:	580-117408-1		
Client ID:	RHMW19-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	22	Worklist Smp#:	80
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: RHMW19 Sample ID: RHMW19-WGN01B-2209WK3 Sample Date: 9/19/2022

Lab: Eurofins Seattle

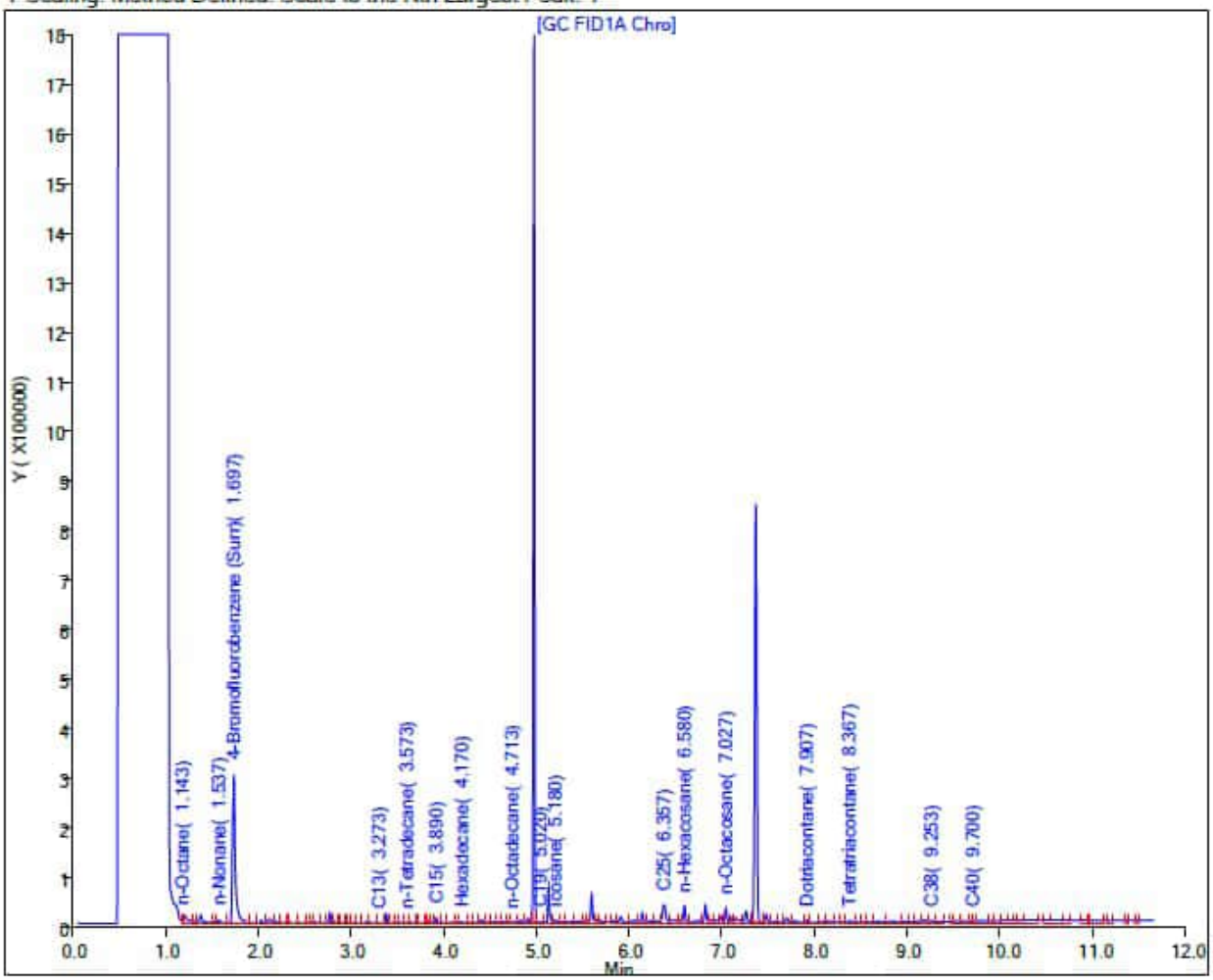
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 24-Sep-2022 22:00:44 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220923-84999.b\092322A016.D				
Injection Date:	23-Sep-2022 18:52:32	Instrument ID:	TAC129		
Lims ID:	580-118121-P-3-A	Lab Sample ID:	580-118121-3		
Client ID:	RHMW19-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW19 Sample ID: RHMW19-WGN01B-2209WK4 Sample Date: 9/26/2022

Lab: Eurofins Seattle

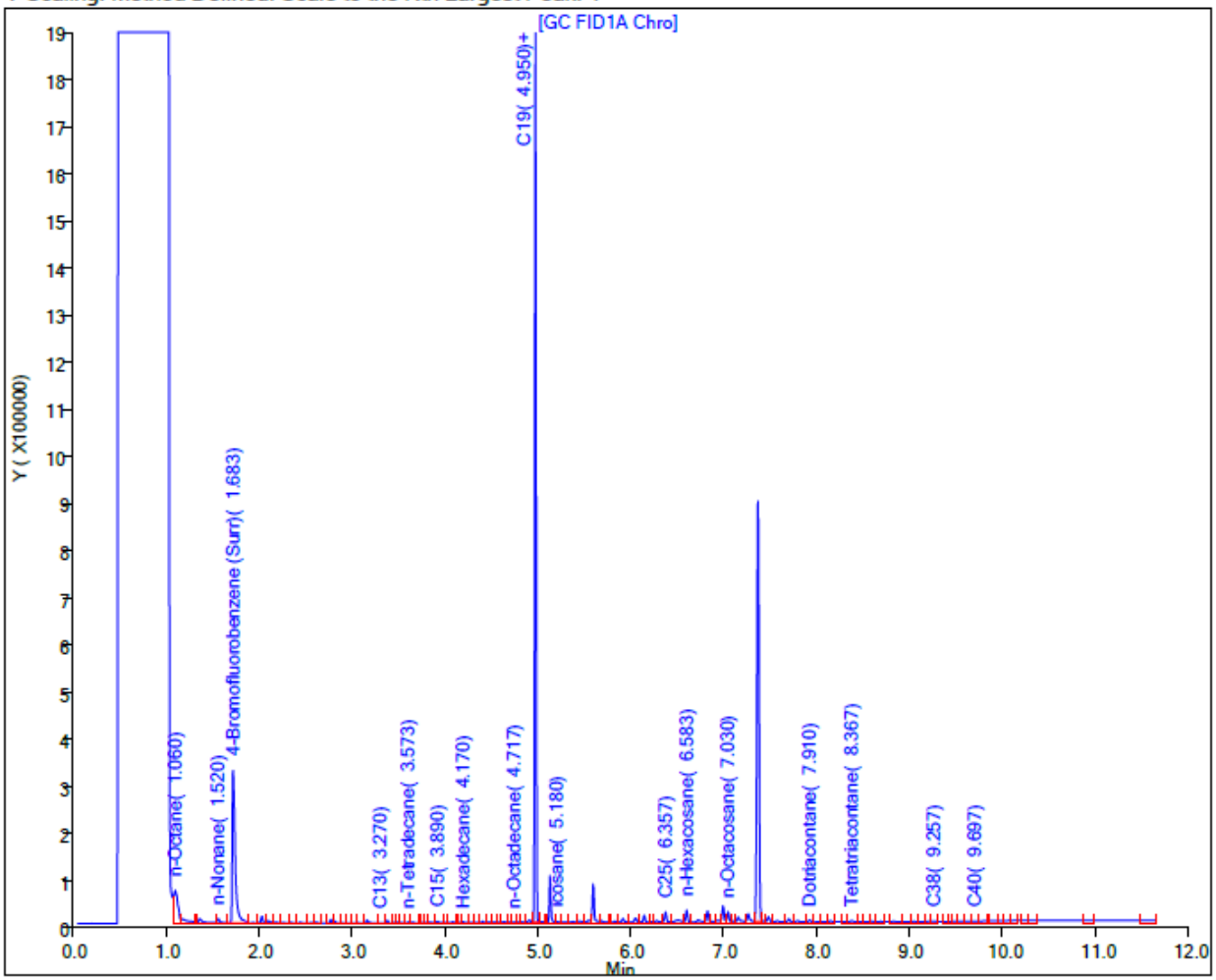
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 03-Oct-2022 13:36:45 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A018.D				
Injection Date:	30-Sep-2022 22:00:10	Instrument ID:	TAC129		
Lims ID:	580-118300-F-4-A	Lab Sample ID:	580-118300-4		
Client ID:	RHMW19-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW19 Sample ID: RHMW19-WGN01B-2210WK1 Sample Date: 10/3/2022

Lab: Eurofins Seattle

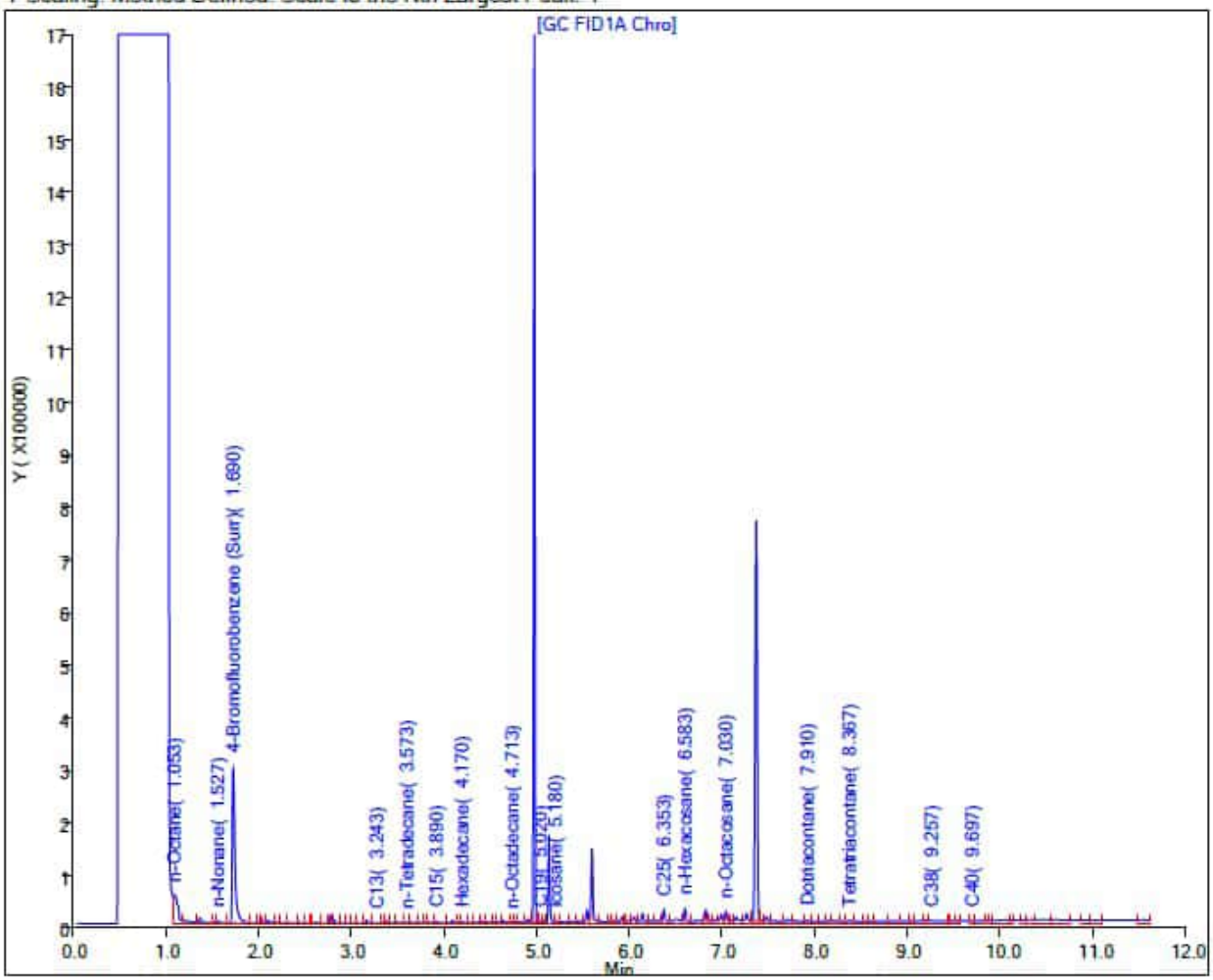
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 06-Oct-2022 14:30:03 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221005-85212.b\100522A020.D				
Injection Date:	05-Oct-2022 21:19:39	Instrument ID:	TAC129		
Lims ID:	580-118476-P-6-A	Lab Sample ID:	580-118476-6		
Client ID:	RHMW19-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: Sump Adit 3 Sample ID: ADIT3-SUMP-WGN01B-2208WK2 Sample Date: 8/11/2022

Lab: Eurofins Seattle

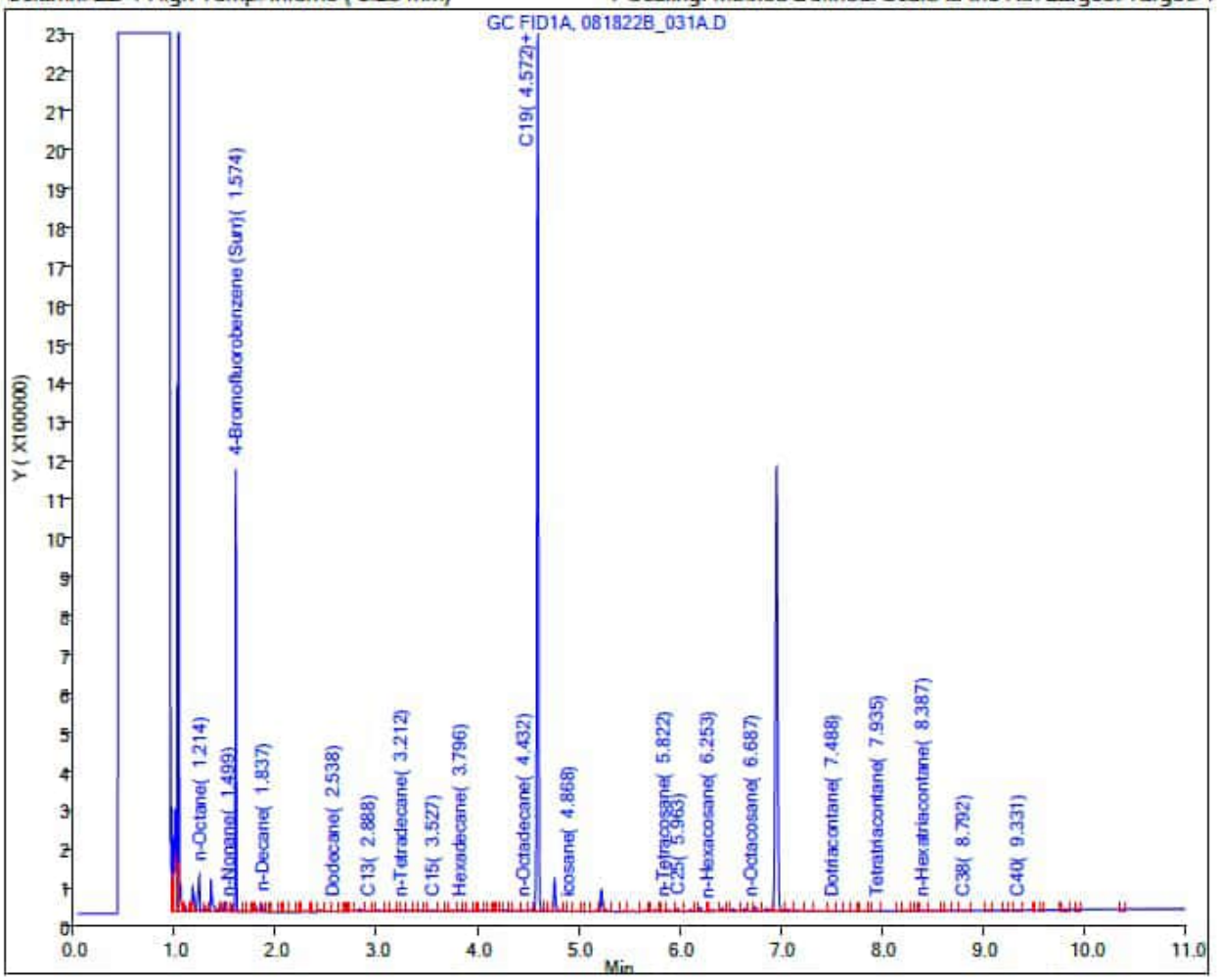
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 19-Aug-2022 13:46:28 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220818-84373.b\081822B_031A.D				
Injection Date:	19-Aug-2022 01:33:30	Instrument ID:	TAC020		
Lims ID:	580-116924-P-4-A	Lab Sample ID:	580-116924-4		
Client ID:	ADIT3-SUMP-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	29	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: Sump Adit 3 Sample ID: ADIT3-SUMP-WGN01B-2209WK2 Sample Date: 9/15/2022

Lab: Eurofins Seattle

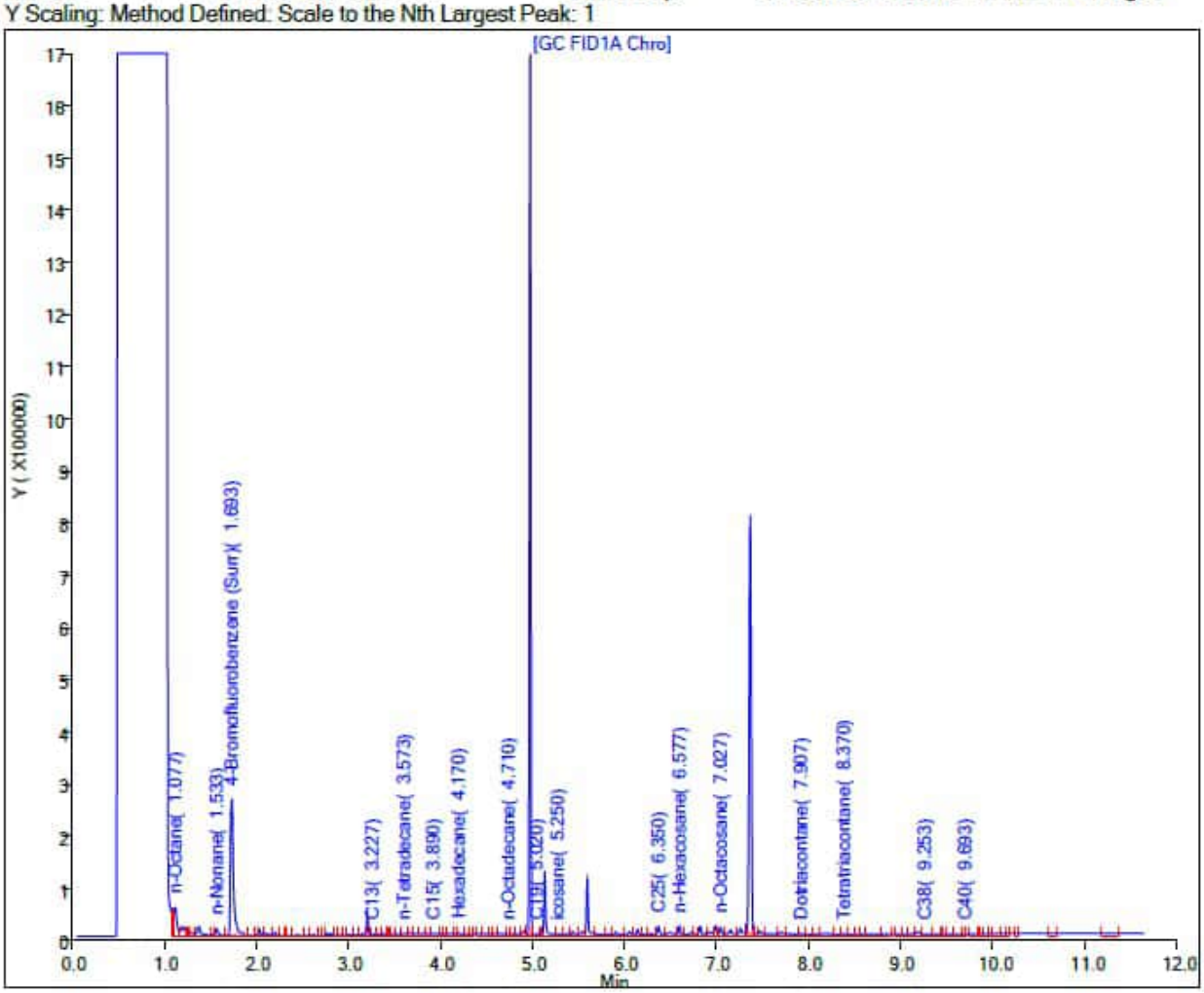
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 22-Sep-2022 20:49:03 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220921-84938.b\092122A052.D				
Injection Date:	21-Sep-2022 22:13:10	Instrument ID:	TAC129		
Lims ID:	580-117960-E-14-A	Lab Sample ID:	580-117960-14		
Client ID:	ADIT3-SUMP-WGN01B-2209WK2				
Operator ID:	ADB	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: Sump Adit 3 Sample ID: ADIT3-SUMP-WGN01B-2209WK3 Sample Date: 9/22/2022

Lab: Eurofins Seattle

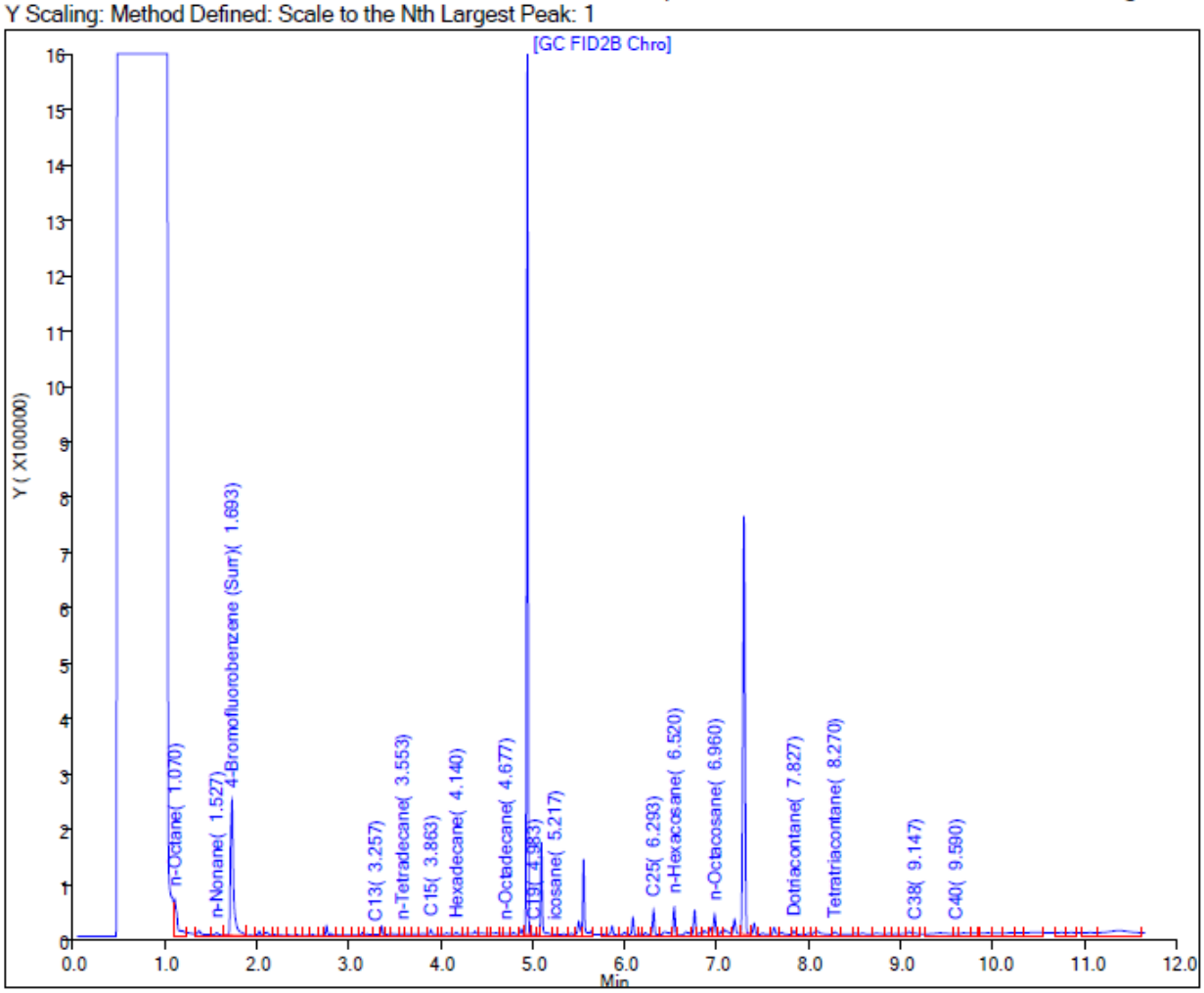
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 29-Sep-2022 15:59:04 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220928-85077.b\092822A029.D				
Injection Date:	28-Sep-2022 22:01:24	Instrument ID:	TAC129_R		
Lims ID:	580-118248-C-1-A	Lab Sample ID:	580-118248-1		
Client ID:	AUDIT3-SUMP-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW01 Sample ID: OWDFMW01-WGN01LF-2208WK2 Sample Date: 8/10/2022
Lab: Eurofins Seattle

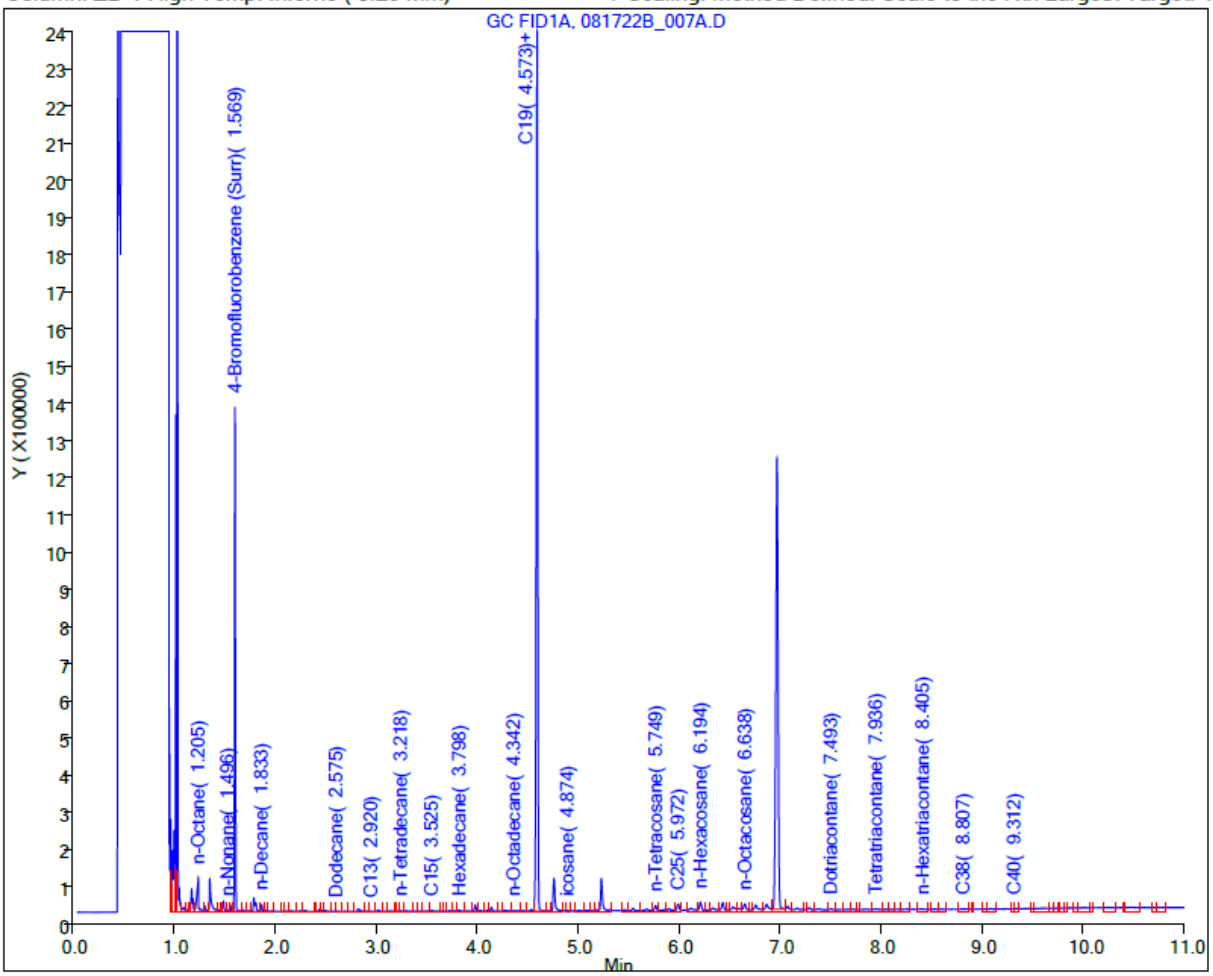
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 18-Aug-2022 11:45:34 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220817-84355.b\081722B_007A.D				
Injection Date:	17-Aug-2022 23:00:30	Instrument ID:	TAC020		
Lims ID:	580-116857-F-1-A	Lab Sample ID:	580-116857-1		
Client ID:	OWDFMW01-WGN01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW01 Sample ID: OWDFMW01-WGN01LF-2208WK5 Sample Date: 8/31/2022
Lab: Eurofins Seattle

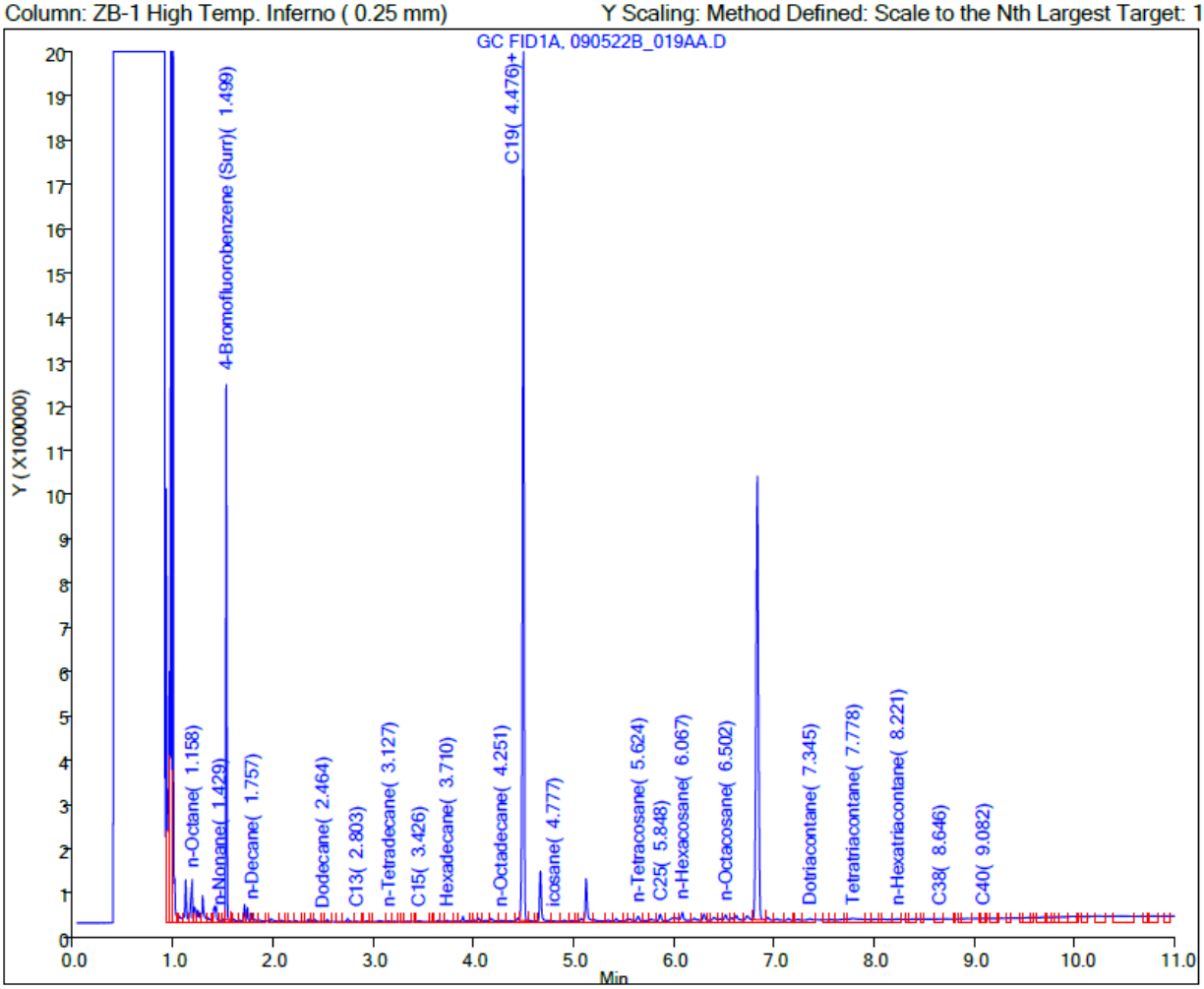
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 12:56:39 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_019AA.D				
Injection Date:	06-Sep-2022 03:03:30	Instrument ID:	TAC020		
Lims ID:	580-117487-F-12-A	Lab Sample ID:	580-117487-12		
Client ID:	OWDFMW01-WGN01LF-2208WK5				
Operator ID:	DH	ALS Bottle#:	18	Worklist Smp#:	79
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW01 Sample ID: OWDFMW01-WGN01LF-2209WK2 Sample Date: 9/14/2022
Lab: Eurofins Seattle

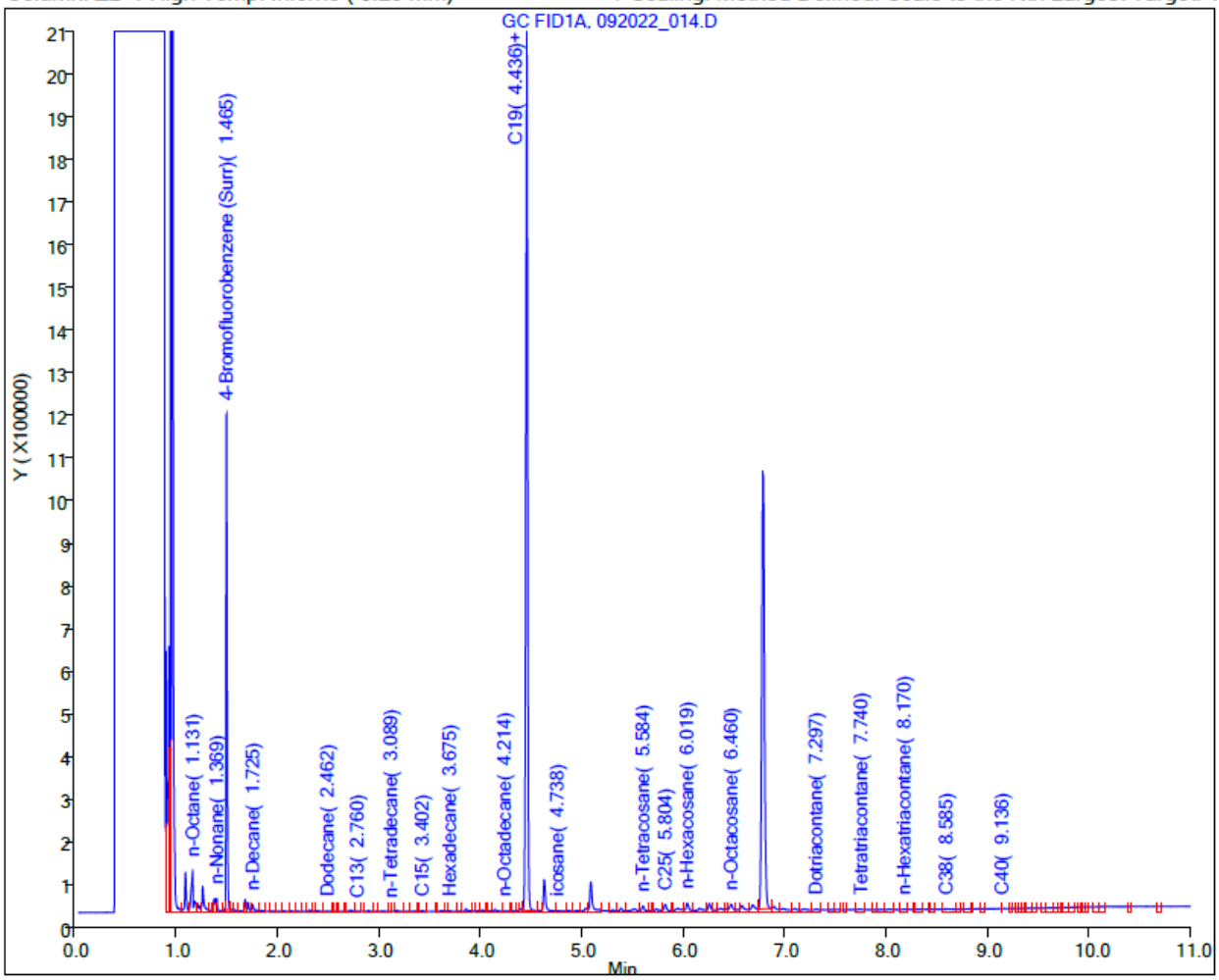
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 21-Sep-2022 13:08:41 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_014.D				
Injection Date:	20-Sep-2022 22:20:30	Instrument ID:	TAC020		
Lims ID:	580-117905-F-1-A	Lab Sample ID:	580-117905-1		
Client ID:	OWDFMW01-WGN01LF-2209WK2				
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW01 Sample ID: OWDFMW01-WGN01LF-2209WK3 Sample Date: 9/21/2022
Lab: Eurofins Seattle

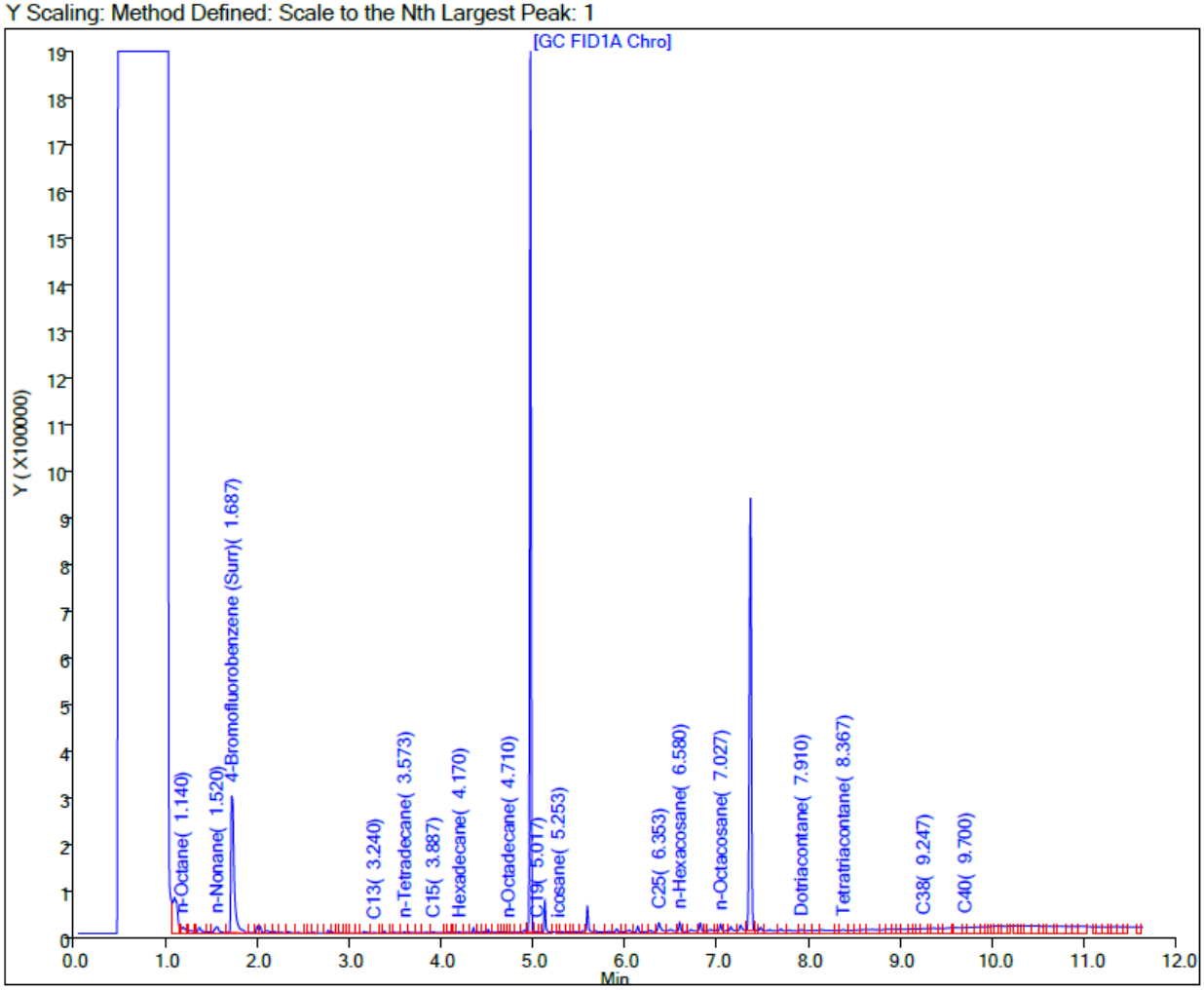
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 28-Sep-2022 15:26:24 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220927-85042.b\092722A014.D				
Injection Date:	27-Sep-2022 17:40:50	Instrument ID:	TAC129		
Lims ID:	580-118187-C-1-A	Lab Sample ID:	580-118187-1		
Client ID:	OWDFMW01-WGN01LF-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW01 Sample ID: OWDFMW01-WGN01LF-2209WK4 Sample Date: 9/28/2022
Lab: Eurofins Seattle

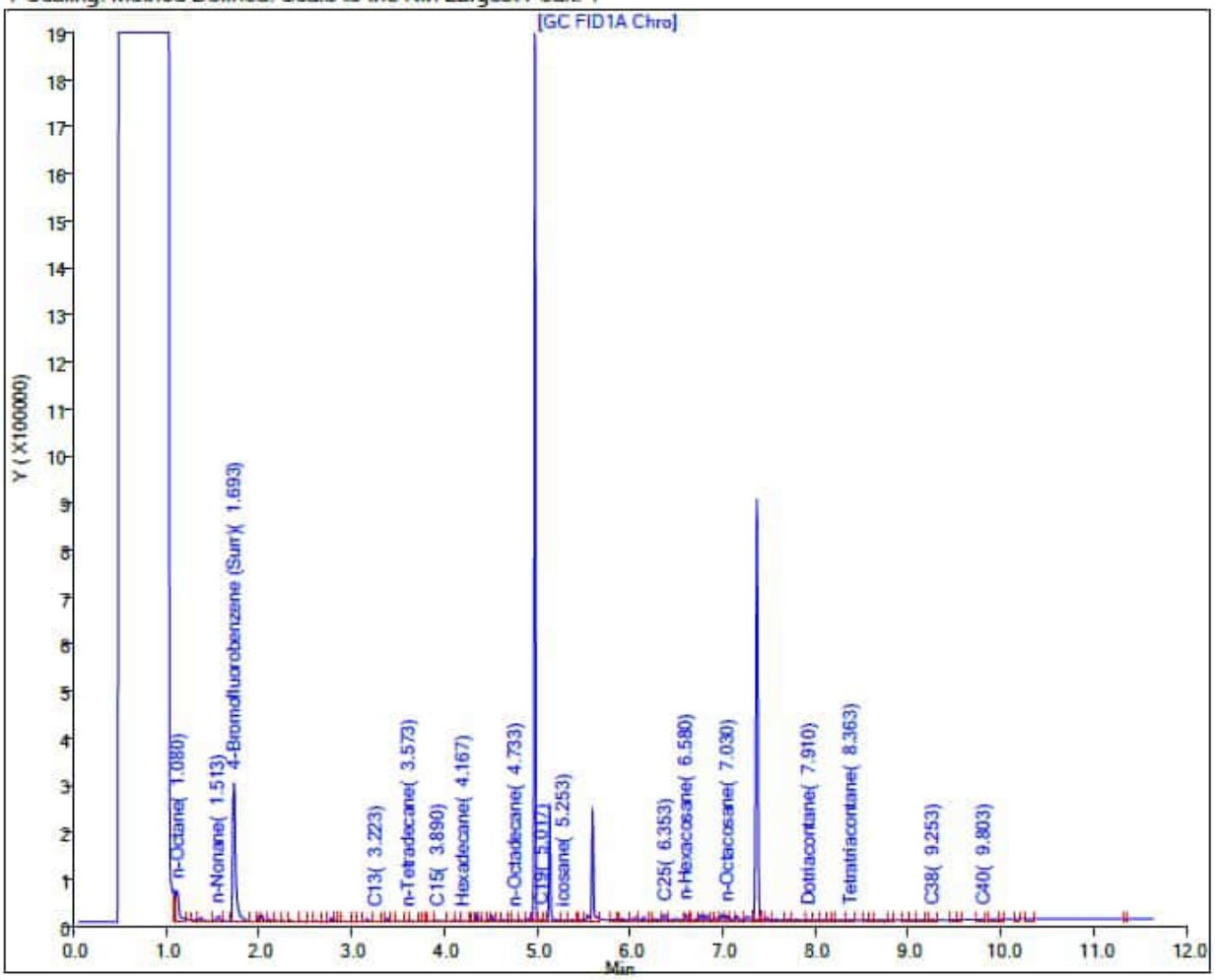
Results (ug/L): TPH-d (C10 to C24) < 100 U TPH-o (C24 to C40) < 310 U

Report Date: 04-Oct-2022 12:31:50 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221003-85158.b\091522A022.D				
Injection Date:	03-Oct-2022 20:54:57	Instrument ID:	TAC129		
Lims ID:	580-118385-C-1-A	Lab Sample ID:	580-118385-1		
Client ID:	OWDFMW01-WGN01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGN01LF-2208WK3 Sample Date: 8/15/2022
Lab: Eurofins Seattle

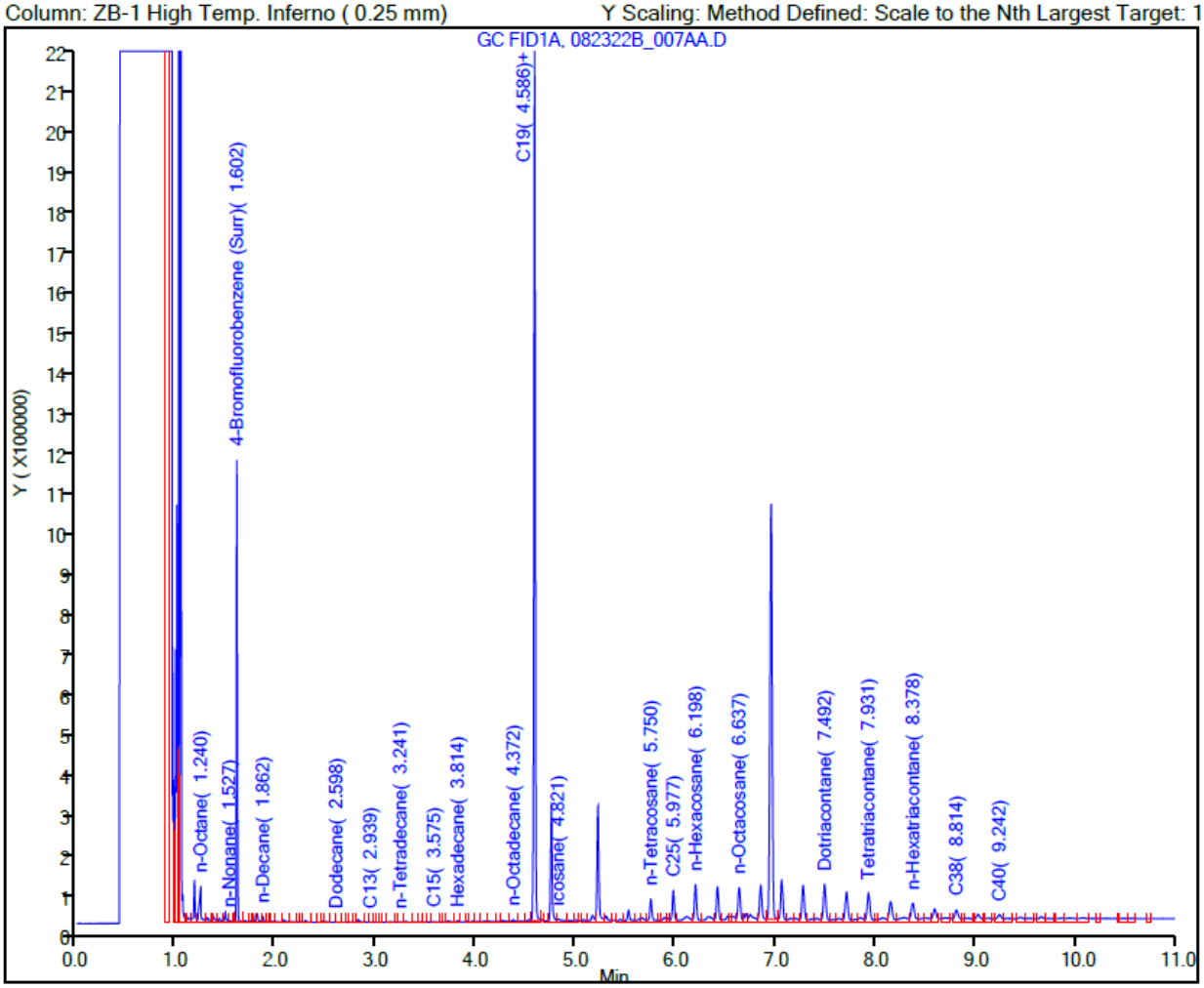
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 24-Aug-2022 09:23:38 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_007AA.D				
Injection Date:	23-Aug-2022 19:42:30	Instrument ID:	TAC020		
Lims ID:	580-116988-C-8-A	Lab Sample ID:	580-116988-8		
Client ID:	OWDFMW04A-WGN01LF-2208WK3				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGFD01LF-2208WK3 Sample Date: 8/15/2022
Lab: Eurofins Seattle

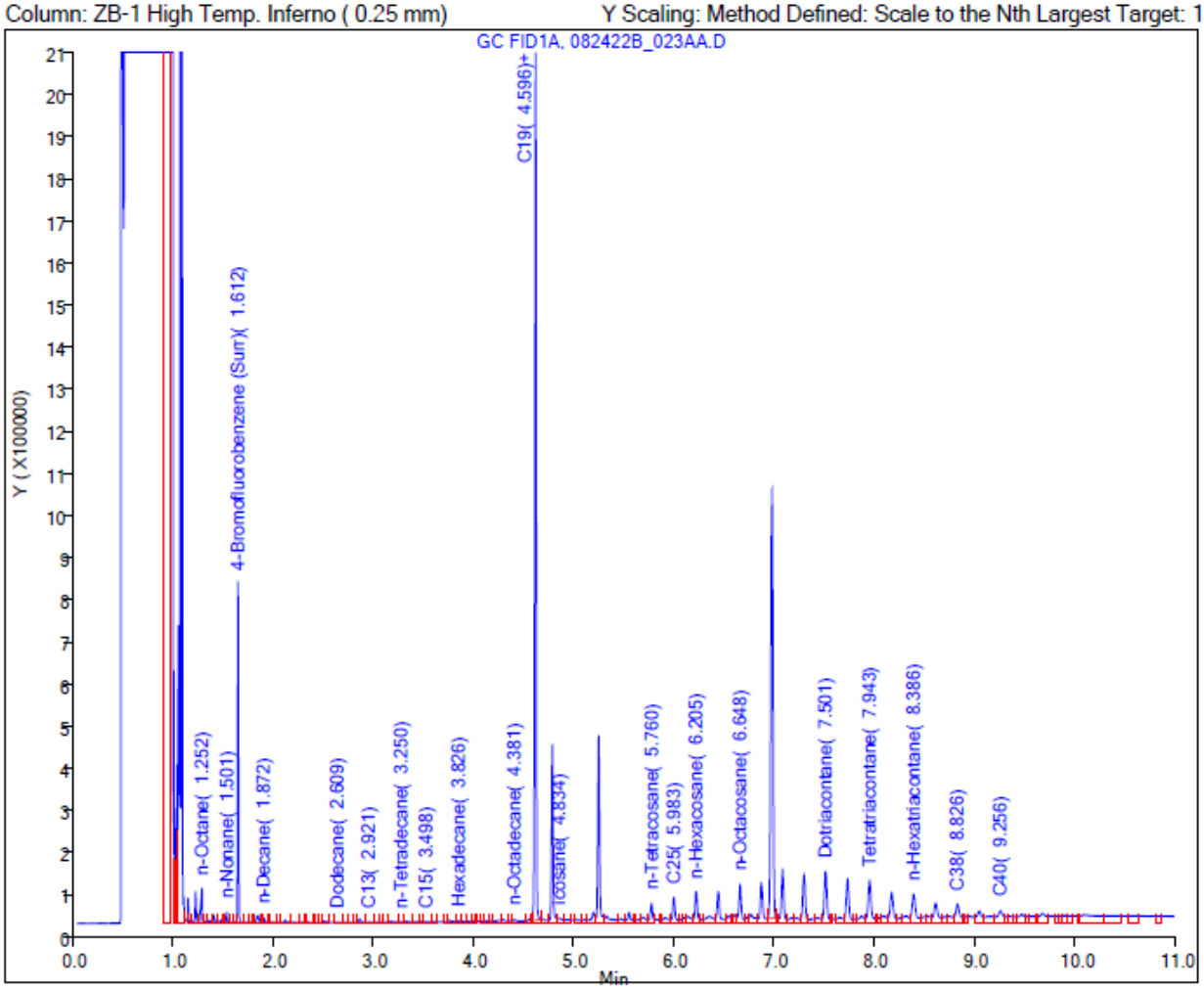
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 25-Aug-2022 10:04:41 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_023AA.D				
Injection Date:	25-Aug-2022 04:05:30	Instrument ID:	TAC020		
Lims ID:	580-116988-D-10-A	Lab Sample ID:	580-116988-10		
Client ID:	OWDFMW04A-WGFD01LF-2208WK3				
Operator ID:	DH	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGN01LF-2208WK4 Sample Date: 8/22/2022
Lab: Eurofins Seattle

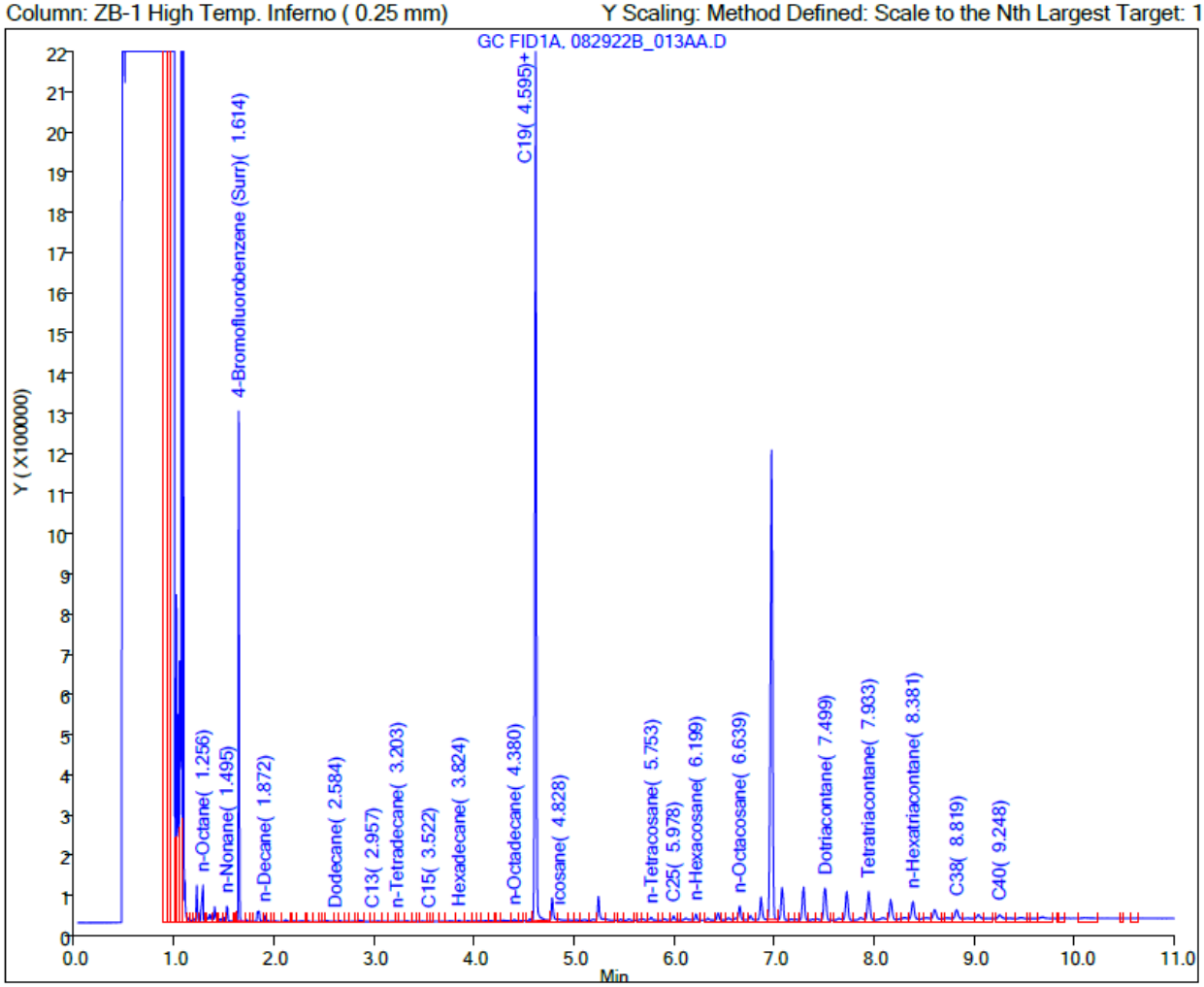
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 30-Aug-2022 12:44:01 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220829-84555.b\082922B_013AA.D				
Injection Date:	29-Aug-2022 23:30:30	Instrument ID:	TAC020		
Lims ID:	580-117203-D-5-A	Lab Sample ID:	580-117203-5		
Client ID:	OWDFMW04A-WGN01LF-2208WK4				
Operator ID:	DH	ALS Bottle#:	12	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGFD01LF-2208WK4 Sample Date: 8/22/2022
Lab: Eurofins Seattle

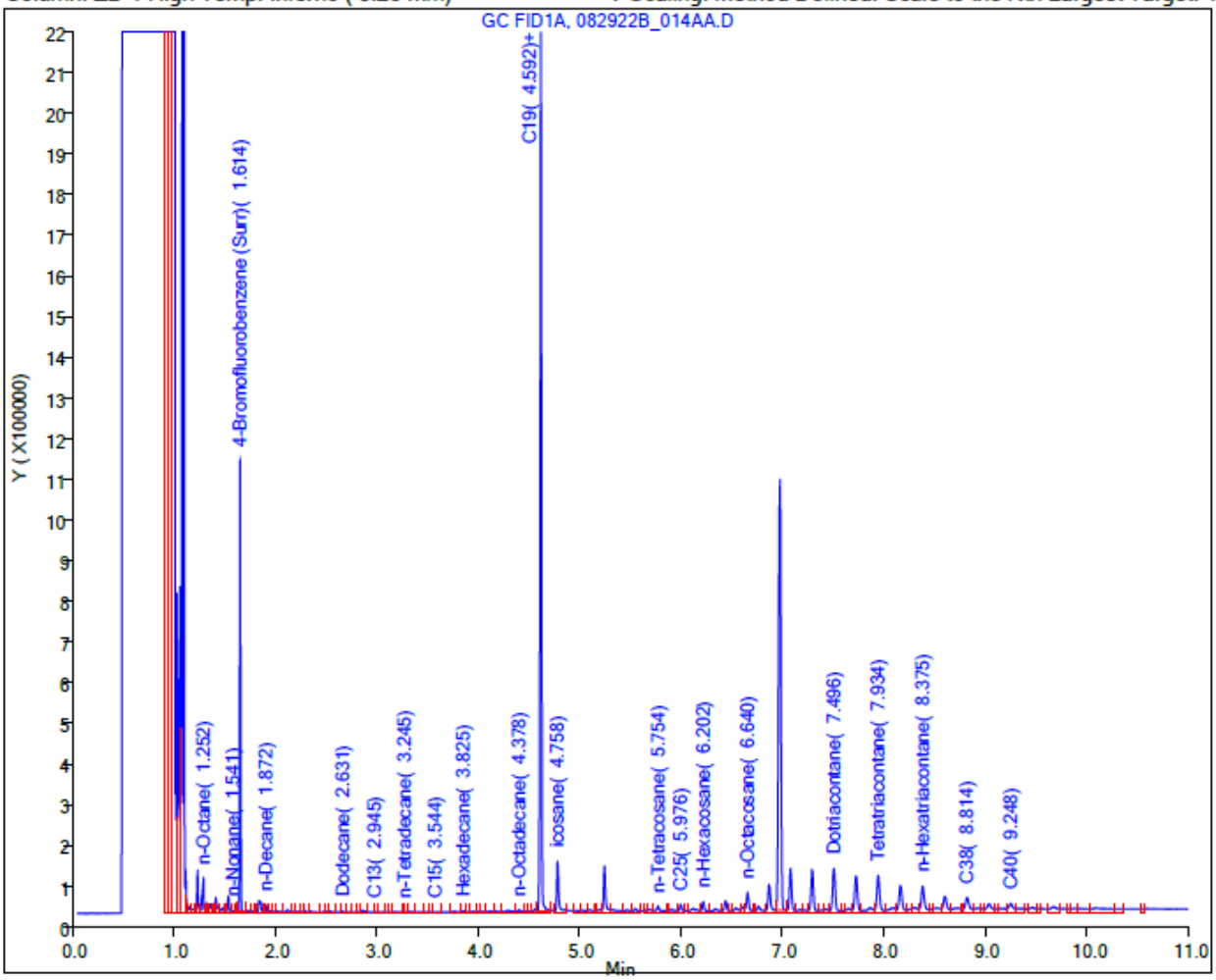
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 30-Aug-2022 12:44:07 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220829-84555.b\082922B_014AA.D				
Injection Date:	29-Aug-2022 23:50:30	Instrument ID:	TAC020		
Lims ID:	580-117203-D-7-A	Lab Sample ID:	580-117203-7		
Client ID:	OWDFMW04A-WGFD01LF-2208WK4				
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGN01LF-2208WK5 Sample Date: 8/29/2022
Lab: Eurofins Seattle

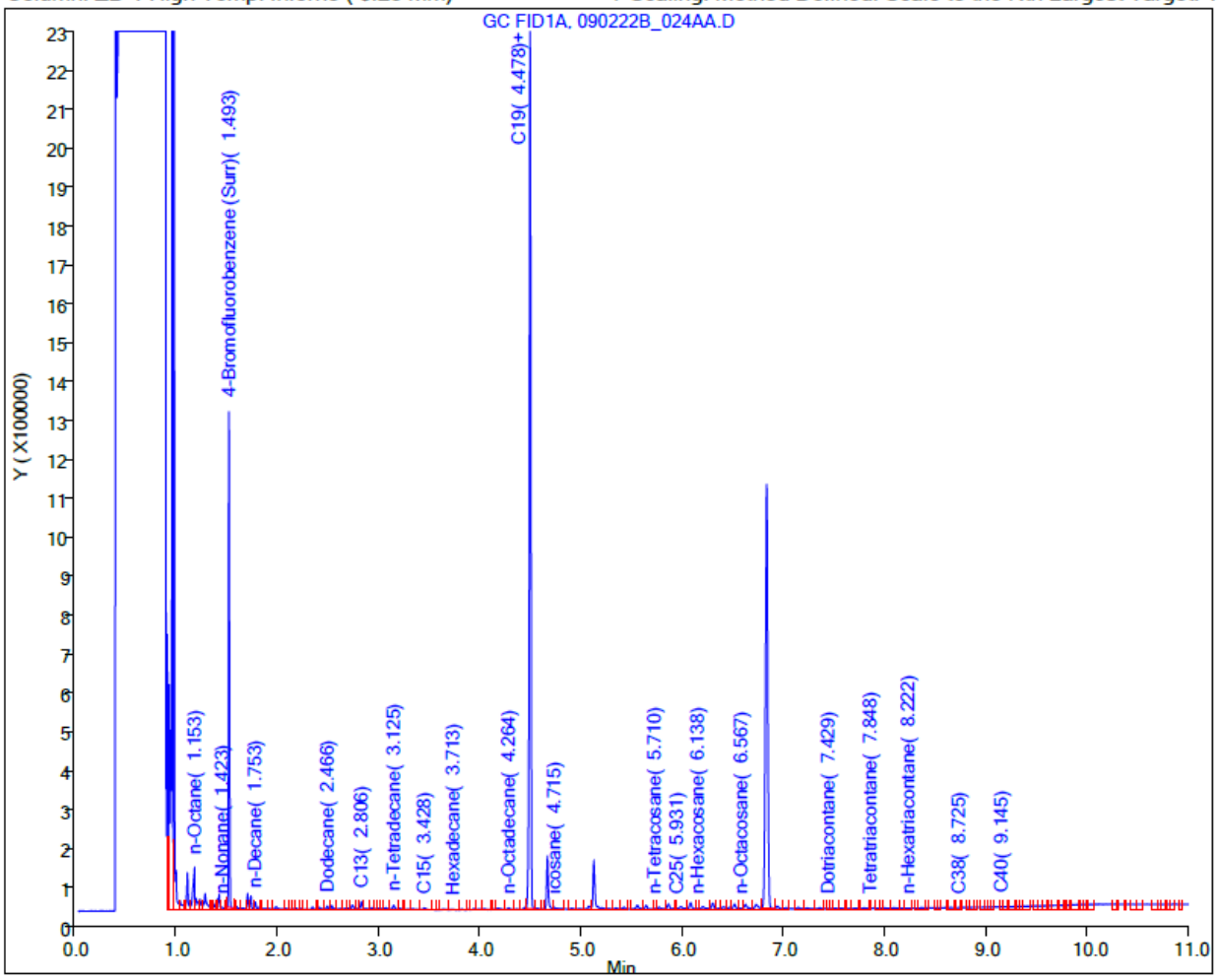
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 06-Sep-2022 14:18:21 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_024AA.D				
Injection Date:	03-Sep-2022 06:02:30	Instrument ID:	TAC020		
Lims ID:	580-117408-O-3-A	Lab Sample ID:	580-117408-3		
Client ID:	OWDFMW04A-WGN01LF-2208WK5				
Operator ID:	DH	ALS Bottle#:	23	Worklist Smp#:	81
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGFD01LF-2208WK5 Sample Date: 8/29/2022
Lab: Eurofins Seattle

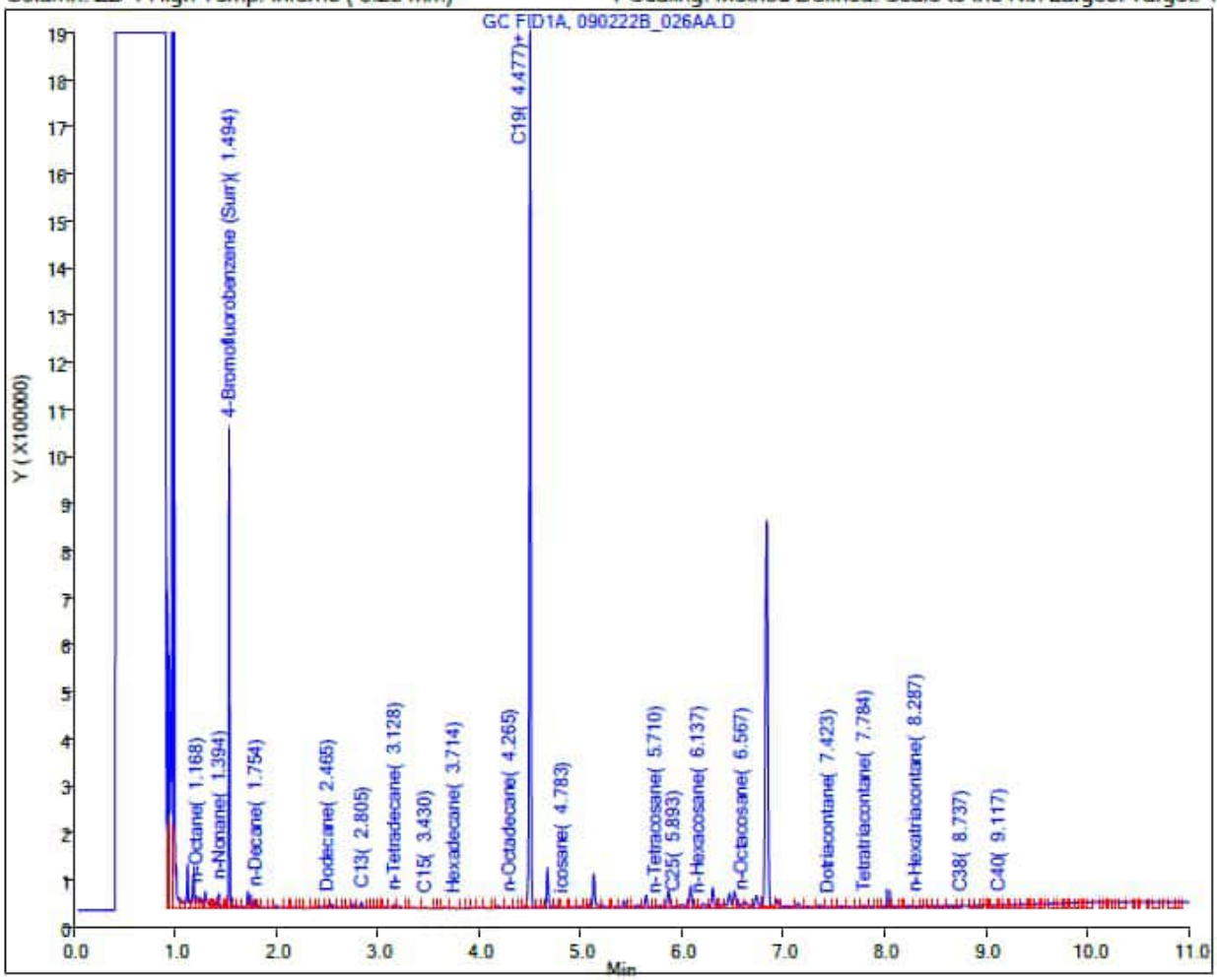
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 06-Sep-2022 14:18:51 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_026AA.D				
Injection Date:	03-Sep-2022 06:42:30	Instrument ID:	TAC020		
Lims ID:	580-117408-O-5-A	Lab Sample ID:	580-117408-5		
Client ID:	OWDFMW04A-WGFD01LF-2208WK5				
Operator ID:	DH	ALS Bottle#:	25	Worklist Smp#:	83
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGN01LF-2209WK1 Sample Date: 9/6/2022
Lab: Eurofins Seattle

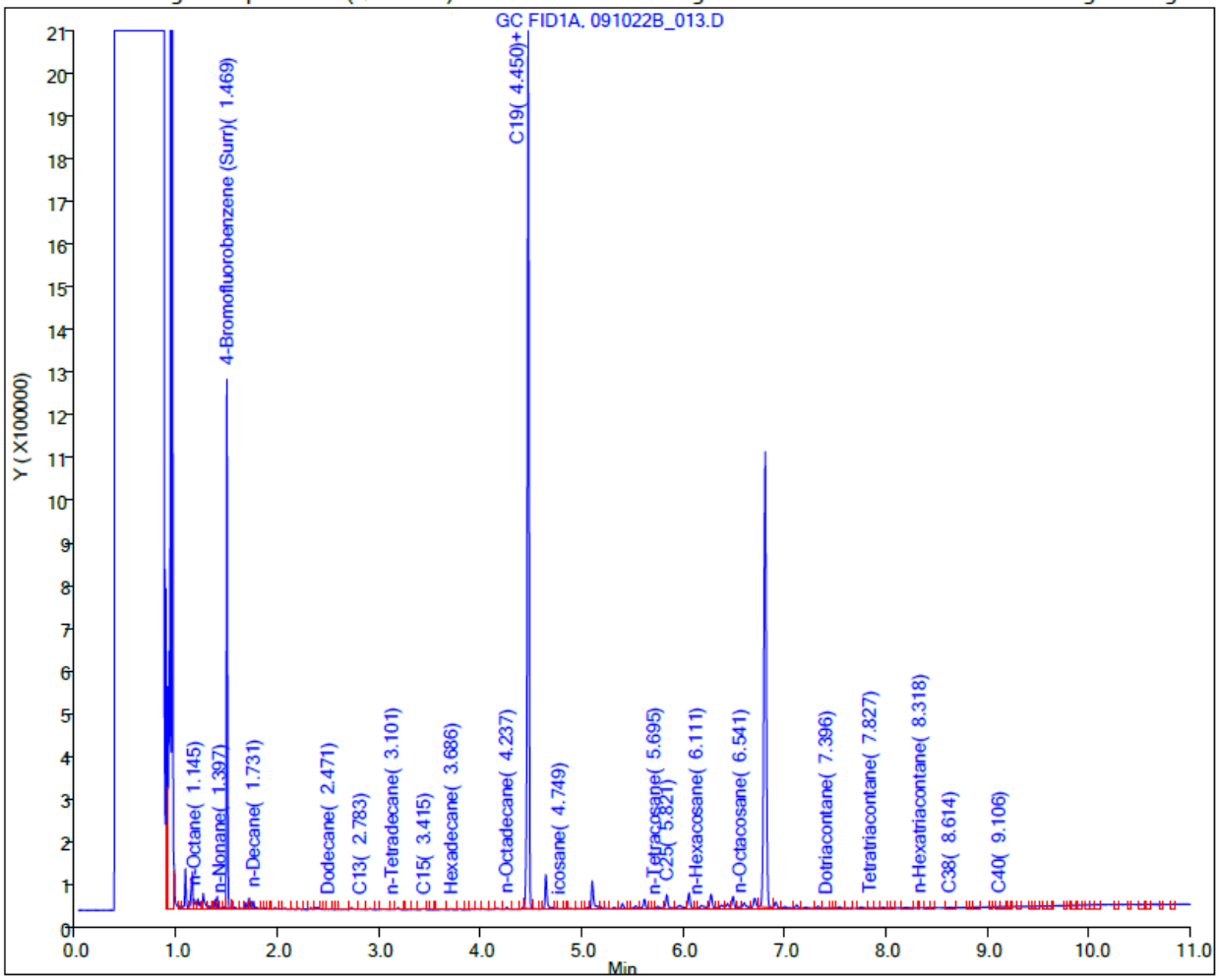
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 13:12:15 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220909-84751.b\091022B_013.D				
Injection Date:	10-Sep-2022 02:08:30	Instrument ID:	TAC020		
Lims ID:	580-117637-Q-1-A	Lab Sample ID:	580-117637-1		
Client ID:	OWDFMW04A-WGN01LF-2209WK1				
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGFD01LF-2209WK1 Sample Date: 9/6/2022
Lab: Eurofins Seattle

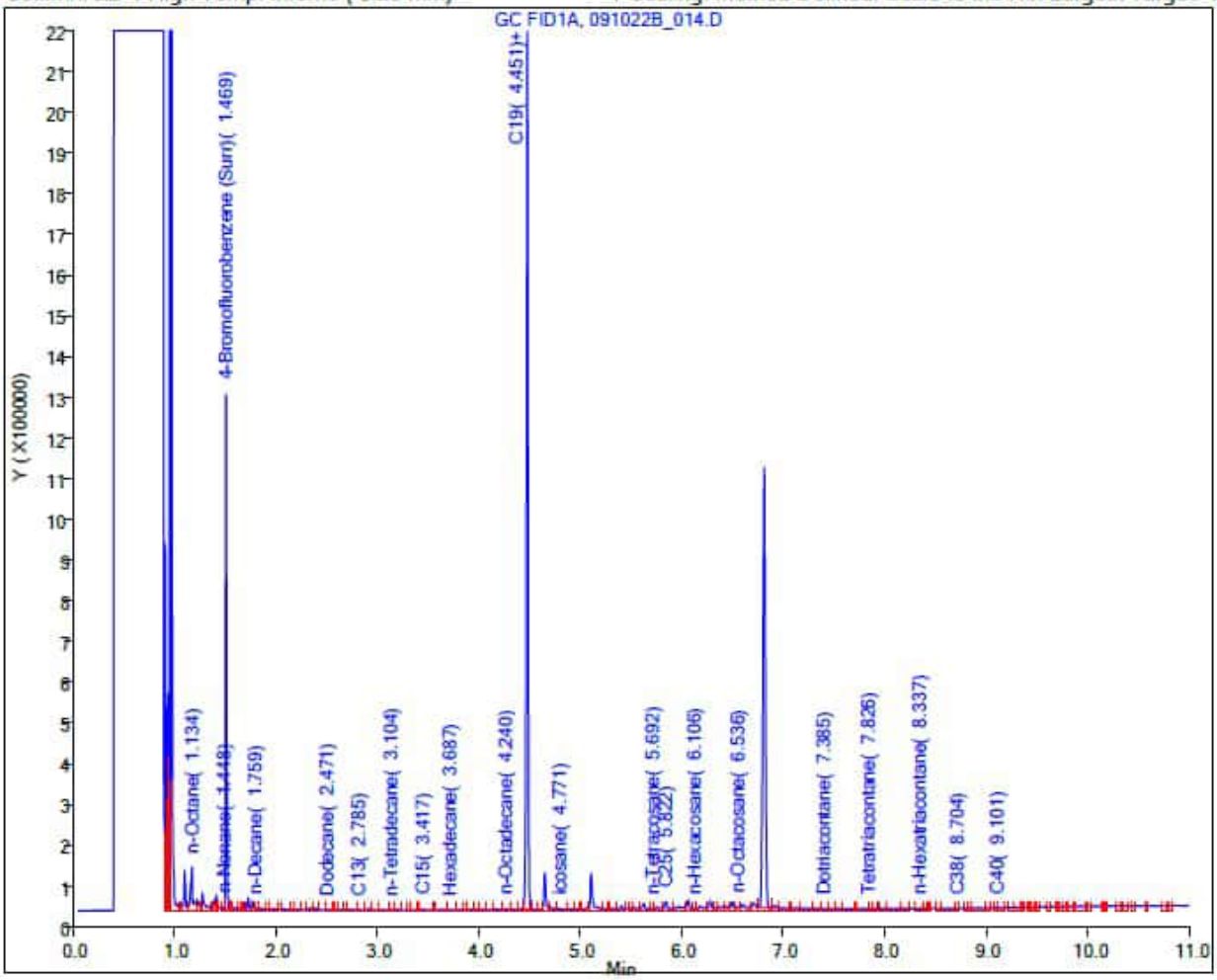
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 13:12:20 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220909-84751.b\091022B_014.D				
Injection Date:	10-Sep-2022 02:29:30	Instrument ID:	TAC020		
Lims ID:	580-117637-I-3-A	Lab Sample ID:	580-117637-3		
Client ID:	OWDFMW04A-WGFD01LF-2209WK1				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGN01LF-2209WK3 Sample Date: 9/21/2022
Lab: Eurofins Seattle

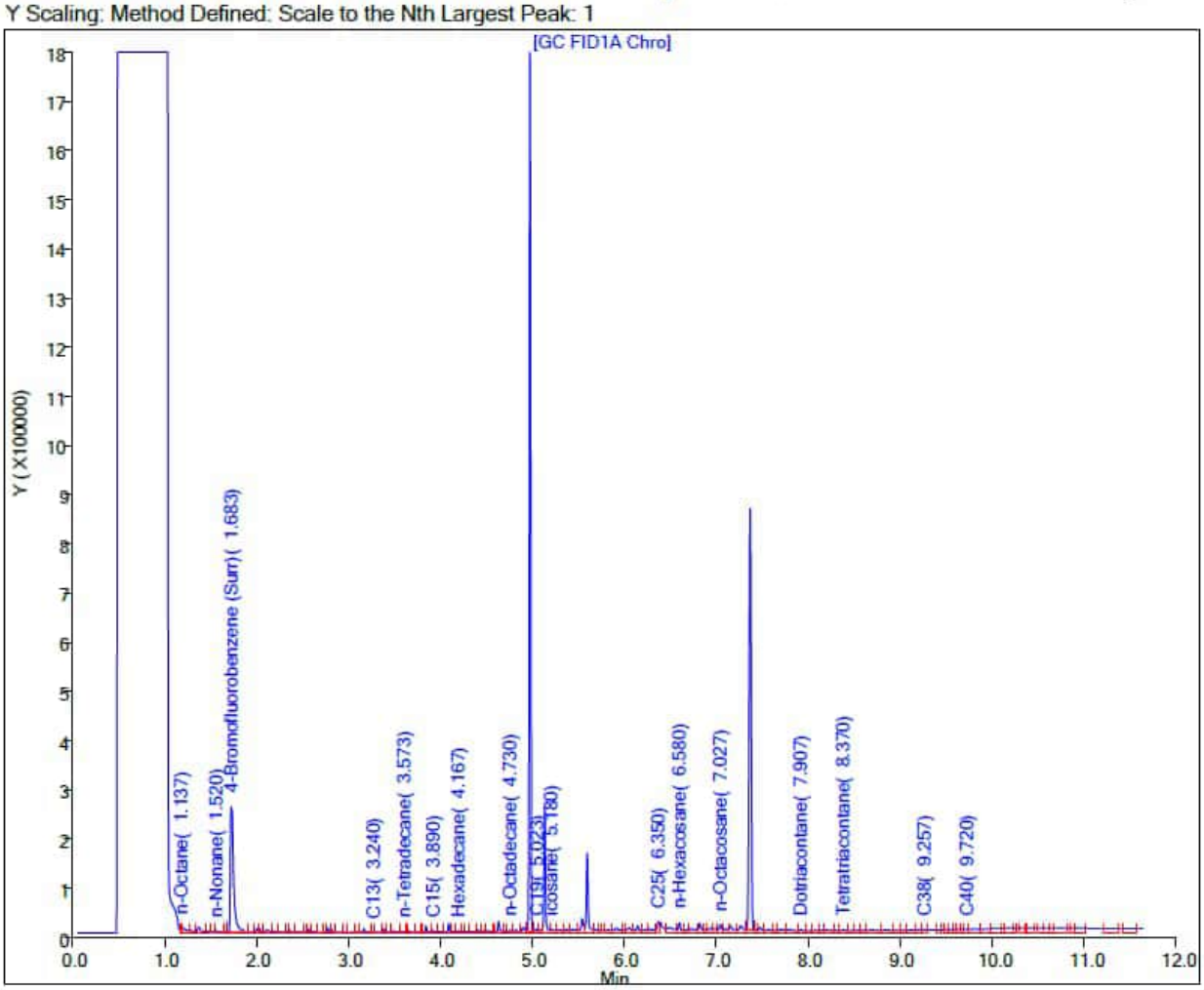
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 28-Sep-2022 15:26:29 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220927-85042.b\092722A016.D				
Injection Date:	27-Sep-2022 17:59:45	Instrument ID:	TAC129		
Lims ID:	580-118187-C-3-A	Lab Sample ID:	580-118187-3		
Client ID:	OWDFMW04A-WGN01LF-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGFD01LF-2209WK3 Sample Date: 9/21/2022
Lab: Eurofins Seattle

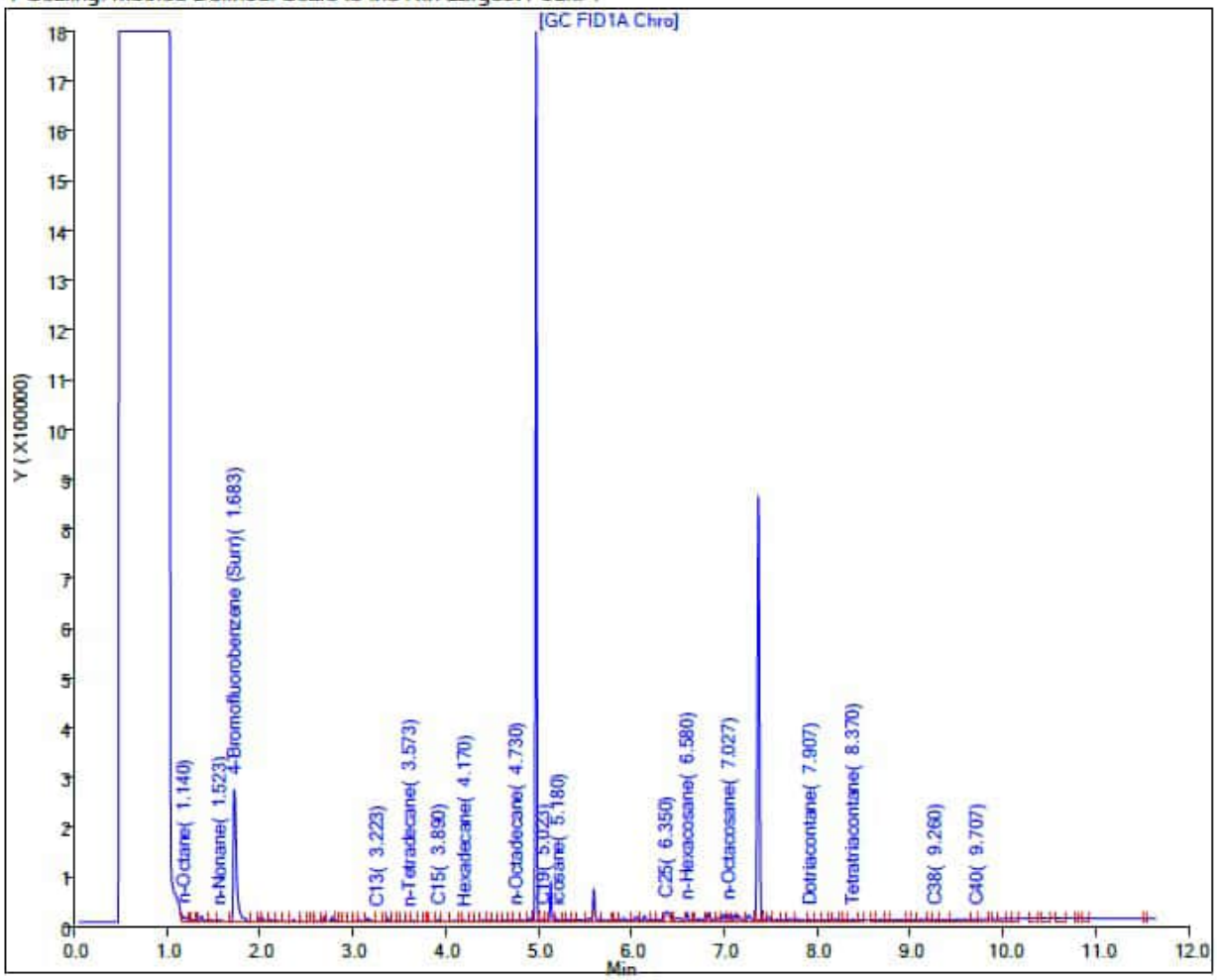
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 28-Sep-2022 15:26:32 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220927-85042.b\092722A018.D				
Injection Date:	27-Sep-2022 18:18:58	Instrument ID:	TAC129		
Lims ID:	580-118187-D-5-A	Lab Sample ID:	580-118187-5		
Client ID:	OWDFMW04A-WGFD01LF-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGN01LF-2209WK4 Sample Date: 9/26/2022
Lab: Eurofins Seattle

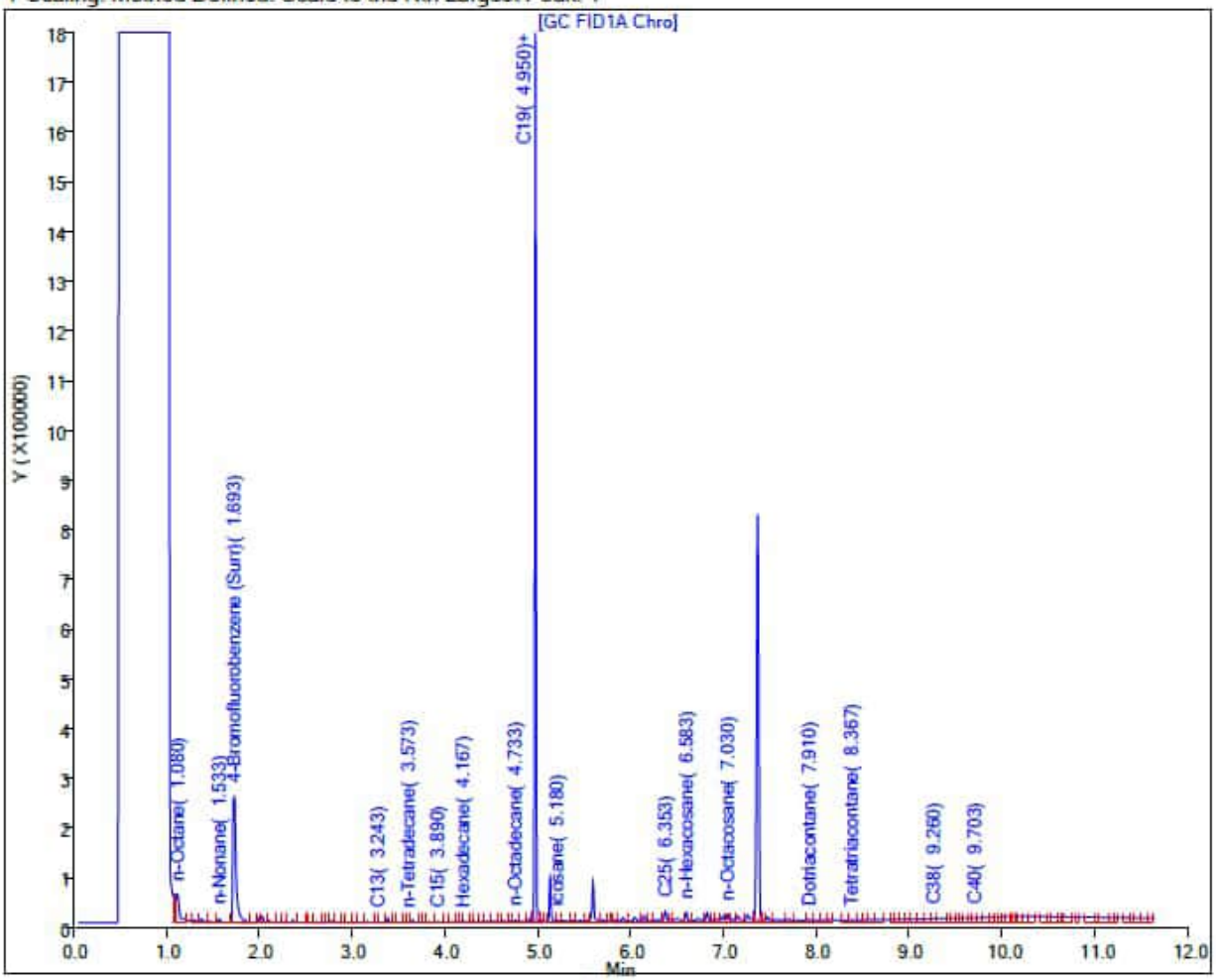
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 03-Oct-2022 13:36:37 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A014.D				
Injection Date:	30-Sep-2022 21:22:18	Instrument ID:	TAC129		
Lims ID:	580-118300-E-1-A	Lab Sample ID:	580-118300-1		
Client ID:	OWDFMW04A-WGN01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGFD01LF-2209WK4 Sample Date: 9/26/2022
Lab: Eurofins Seattle

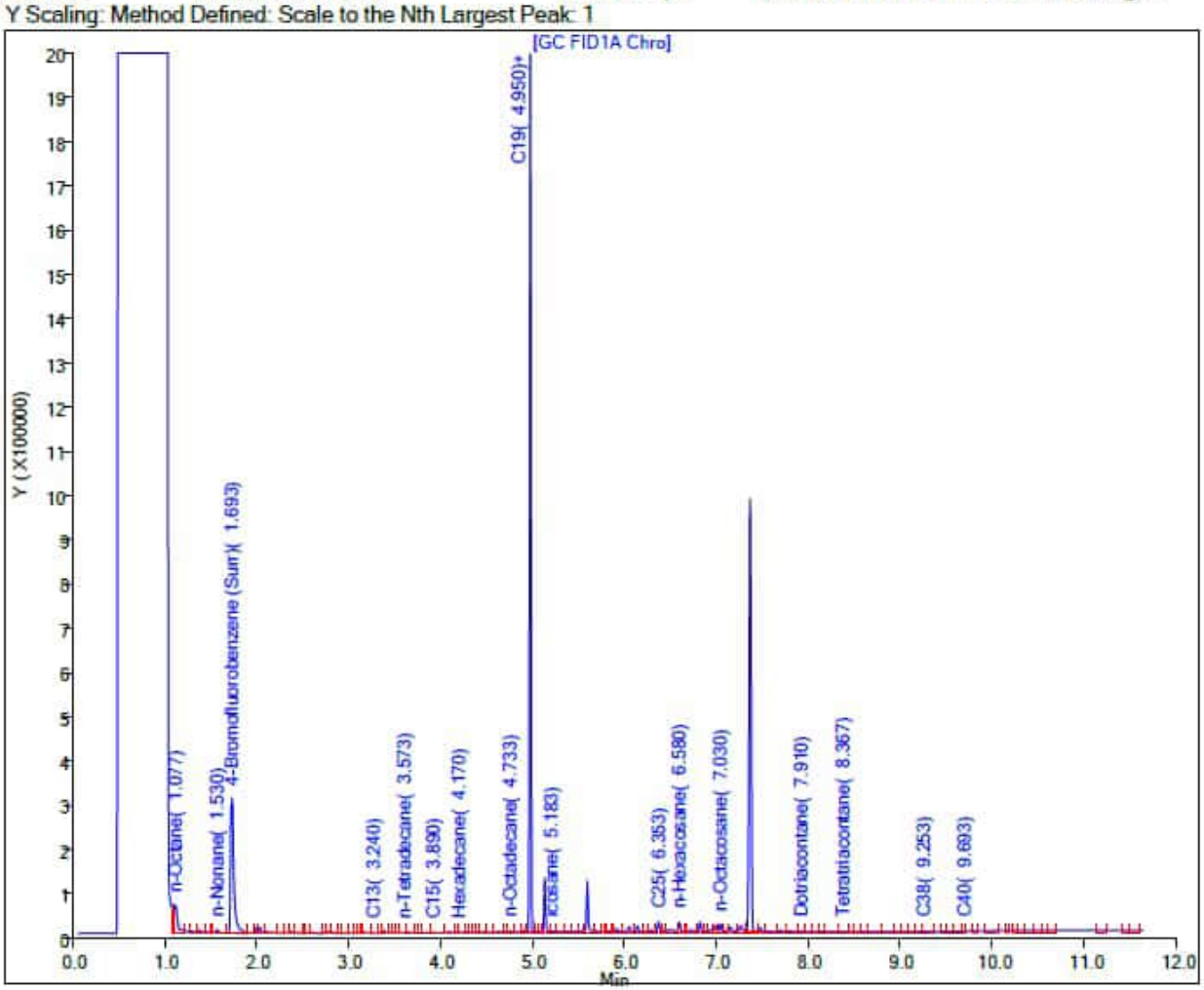
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 03-Oct-2022 13:36:41 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A016.D				
Injection Date:	30-Sep-2022 21:41:10	Instrument ID:	TAC129		
Lims ID:	580-118300-B-3-A	Lab Sample ID:	580-118300-3		
Client ID:	OWDFMW04A-WGFD01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGN01LF-2210WK1 Sample Date: 10/3/2022
Lab: Eurofins Seattle

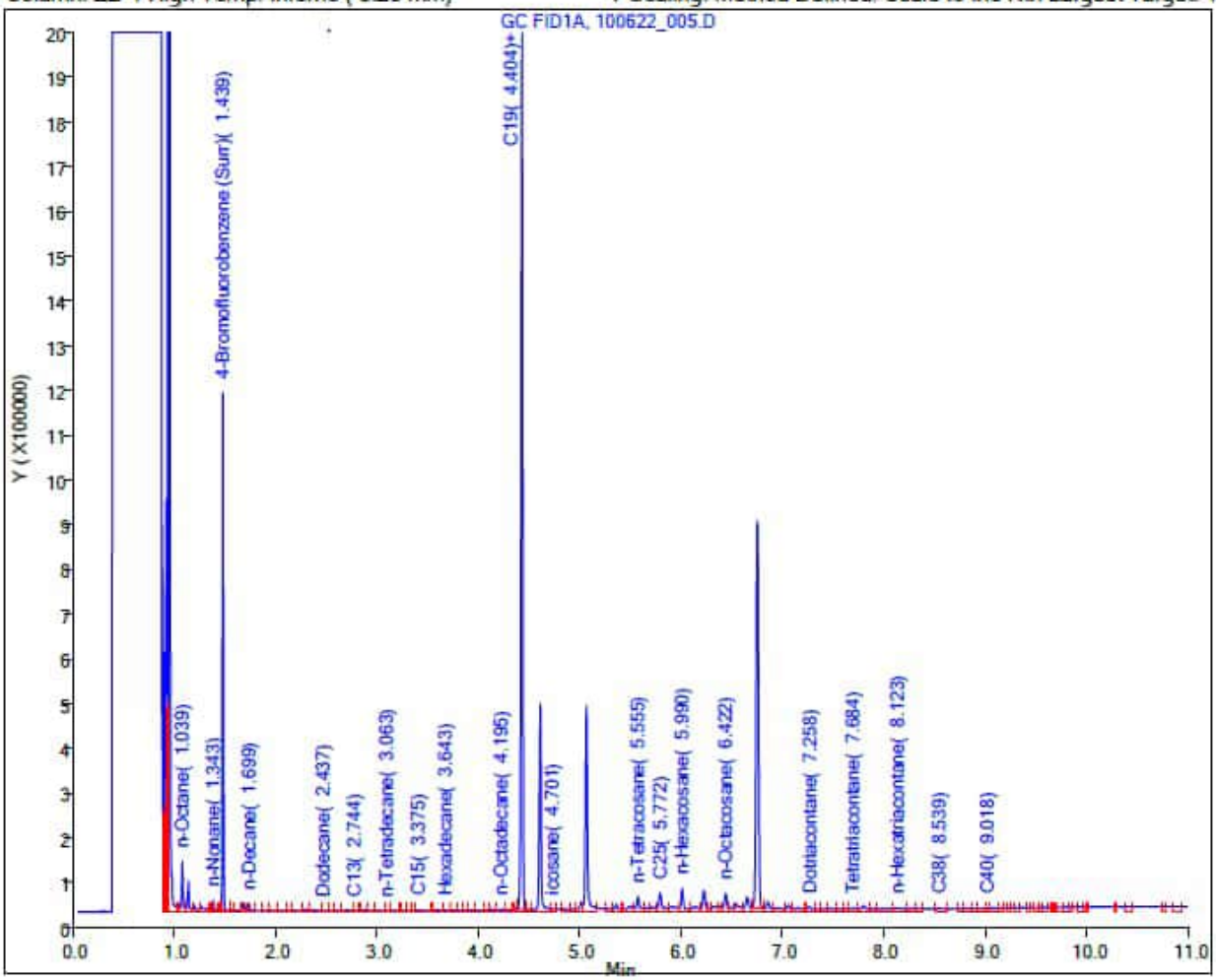
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 06-Oct-2022 19:04:08 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221006-85225.b\100622_005.D				
Injection Date:	06-Oct-2022 15:52:30	Instrument ID:	TAC020		
Lims ID:	580-118476-Q-1-A	Lab Sample ID:	580-118476-1		
Client ID:	OWDFMW04A-WGN01LF-2210WK1				
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW04A Sample ID: OWDFMW04A-WGFD01LF-2210WK1 Sample Date: 10/3/2022
Lab: Eurofins Seattle

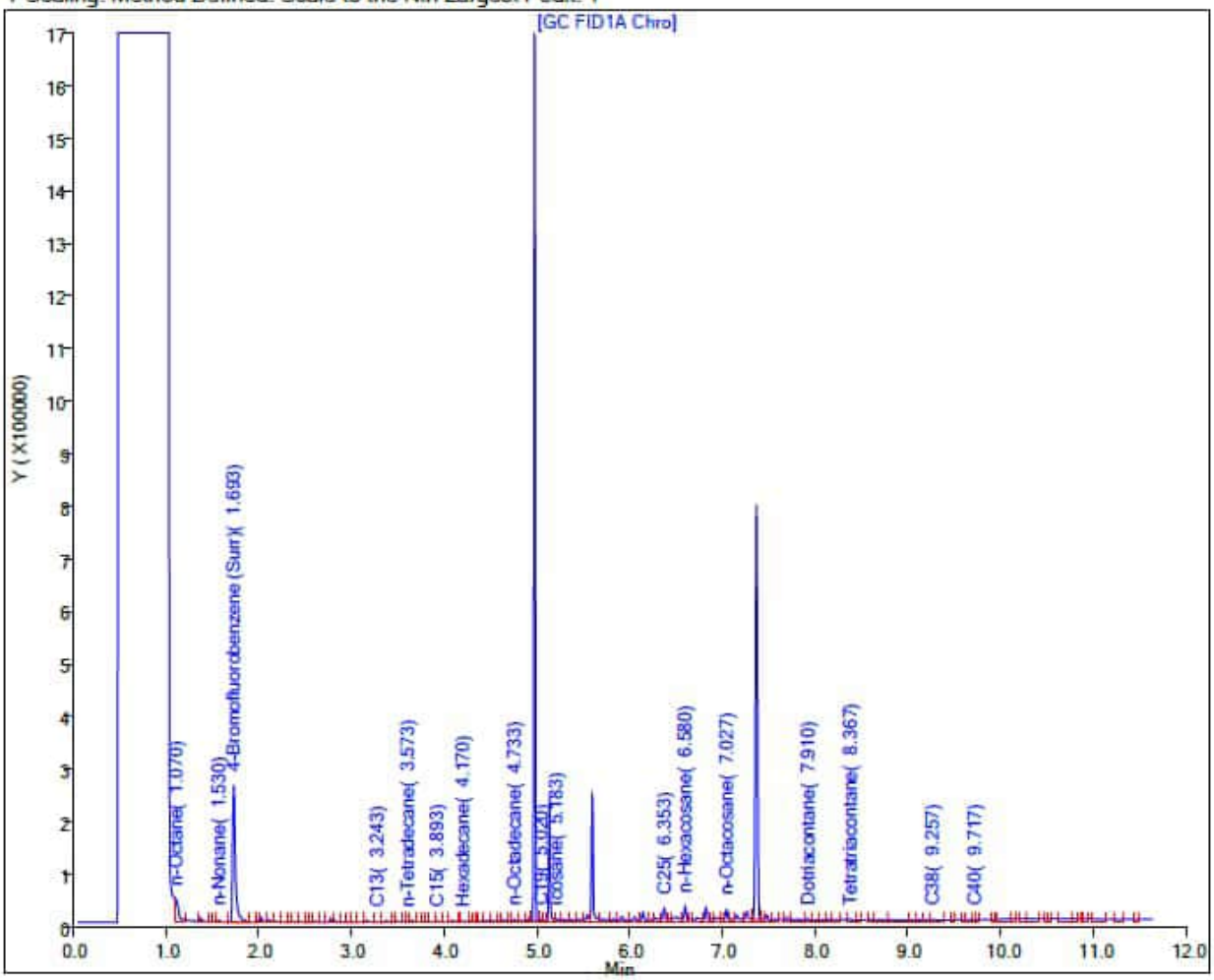
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 06-Oct-2022 14:29:57 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221005-85212.b\100522A016.D				
Injection Date:	05-Oct-2022 20:41:54	Instrument ID:	TAC129		
Lims ID:	580-118476-I-3-A	Lab Sample ID:	580-118476-3		
Client ID:	OWDFMW04A-WGFD01LF-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW05A Sample ID: OWDFMW05A-WGN01LF-2208WK3 Sample Date: 8/15/2022
Lab: Eurofins Seattle

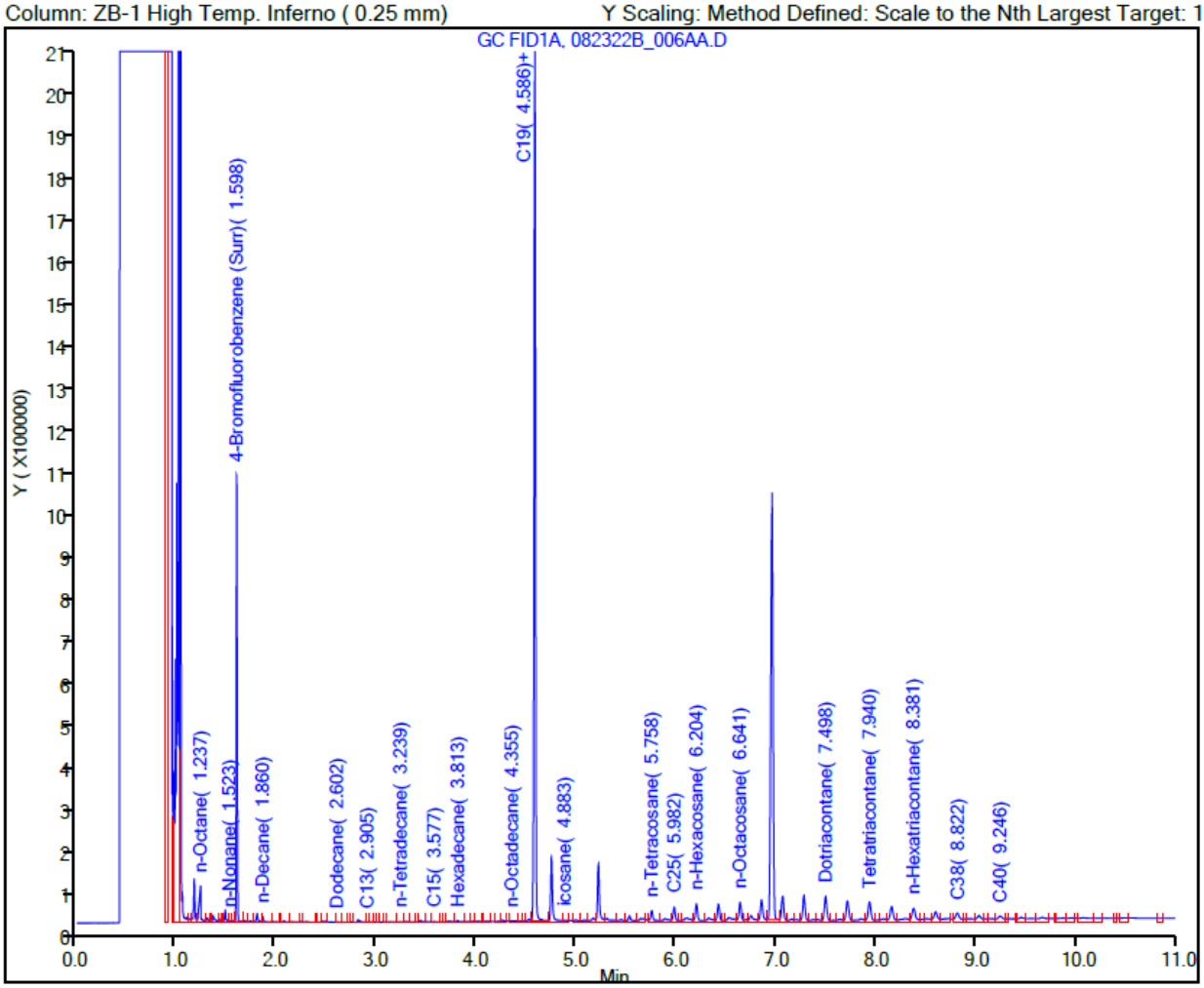
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 24-Aug-2022 09:23:32 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_006AA.D				
Injection Date:	23-Aug-2022 19:22:30	Instrument ID:	TAC020		
Lims ID:	580-116988-C-6-A	Lab Sample ID:	580-116988-6		
Client ID:	OWDFMW05A-WGN01LF-2208WK3				
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW05A Sample ID: OWDFMW05A-WGN01LF-2208WK4 Sample Date: 8/22/2022
Lab: Eurofins Seattle

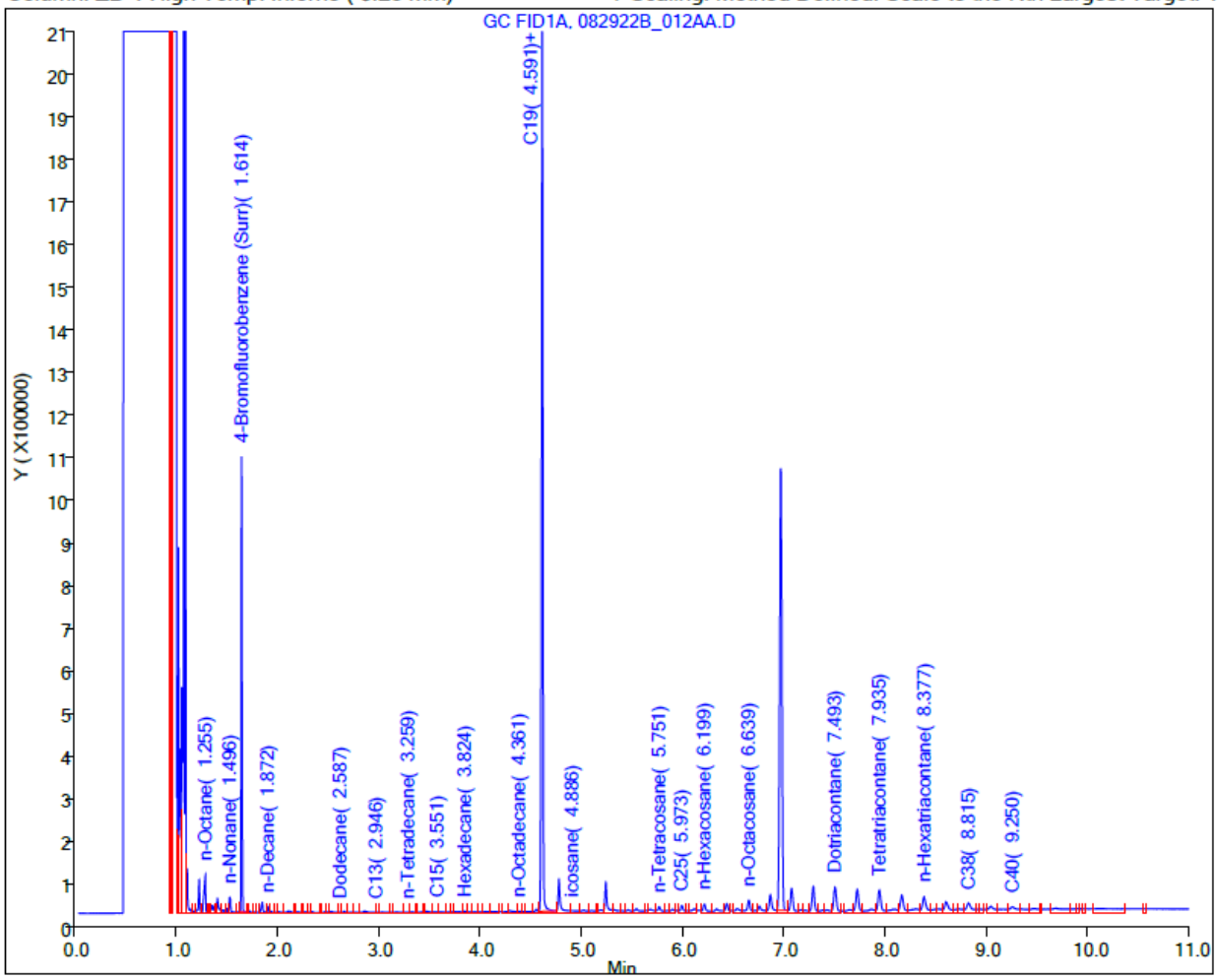
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 30-Aug-2022 12:43:56 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220829-84555.b\082922B_012AA.D				
Injection Date:	29-Aug-2022 23:10:30	Instrument ID:	TAC020		
Lims ID:	580-117203-D-3-A	Lab Sample ID:	580-117203-3		
Client ID:	OWDFMW05A-WGN01LF-2208WK4				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW05A Sample ID: OWDFMW05A-WGN01LF-2208WK5 Sample Date: 8/29/2022
Lab: Eurofins Seattle

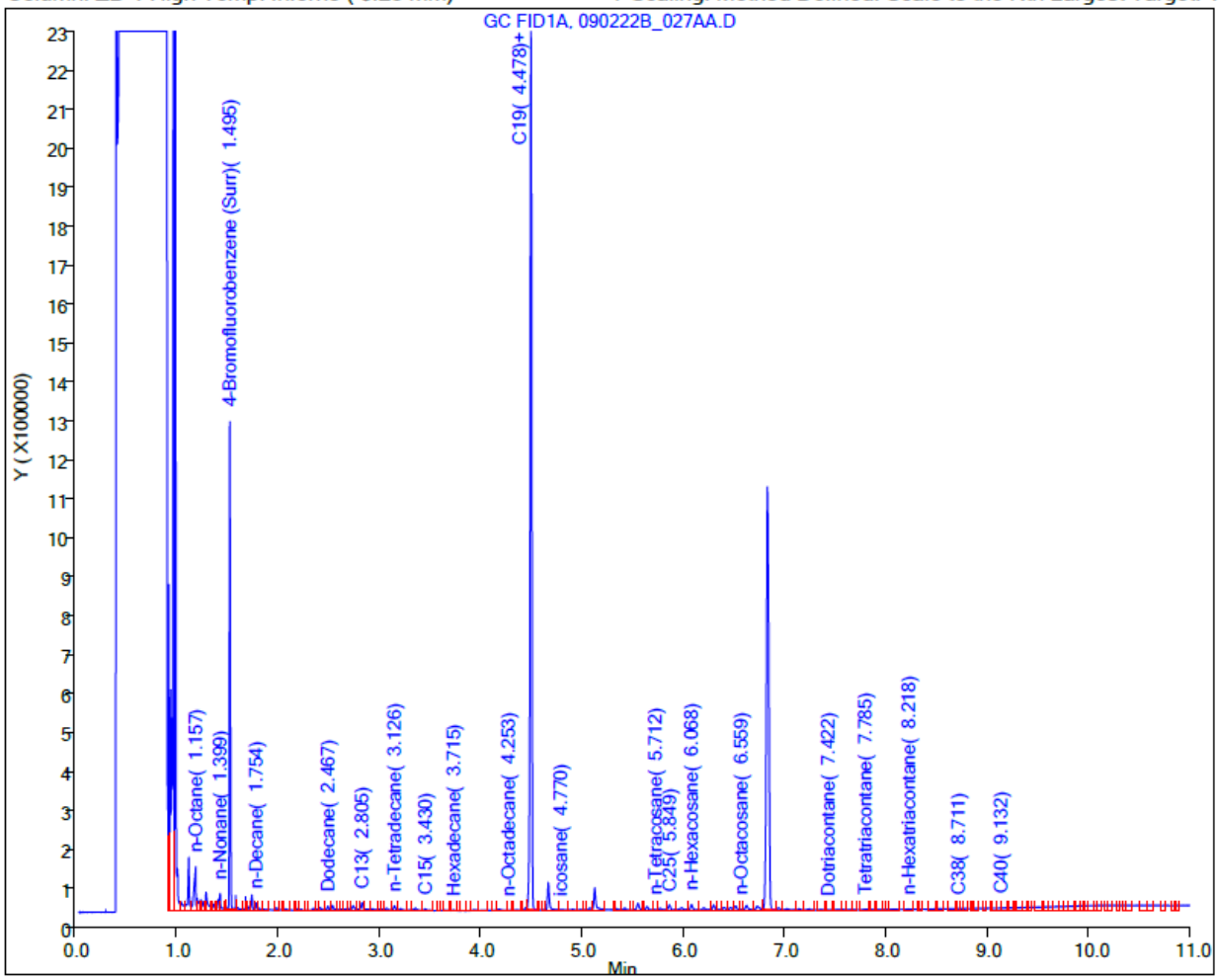
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 06-Sep-2022 14:18:56 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_027AA.D				
Injection Date:	03-Sep-2022 07:02:30	Instrument ID:	TAC020		
Lims ID:	580-117408-N-6-A	Lab Sample ID:	580-117408-6		
Client ID:	OWDFMW05A-WGN01LF-2208WK5				
Operator ID:	DH	ALS Bottle#:	26	Worklist Smp#:	84
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW05A Sample ID: OWDFMW05A-WGN01LF-2209WK1 Sample Date: 9/6/2022
Lab: Eurofins Seattle

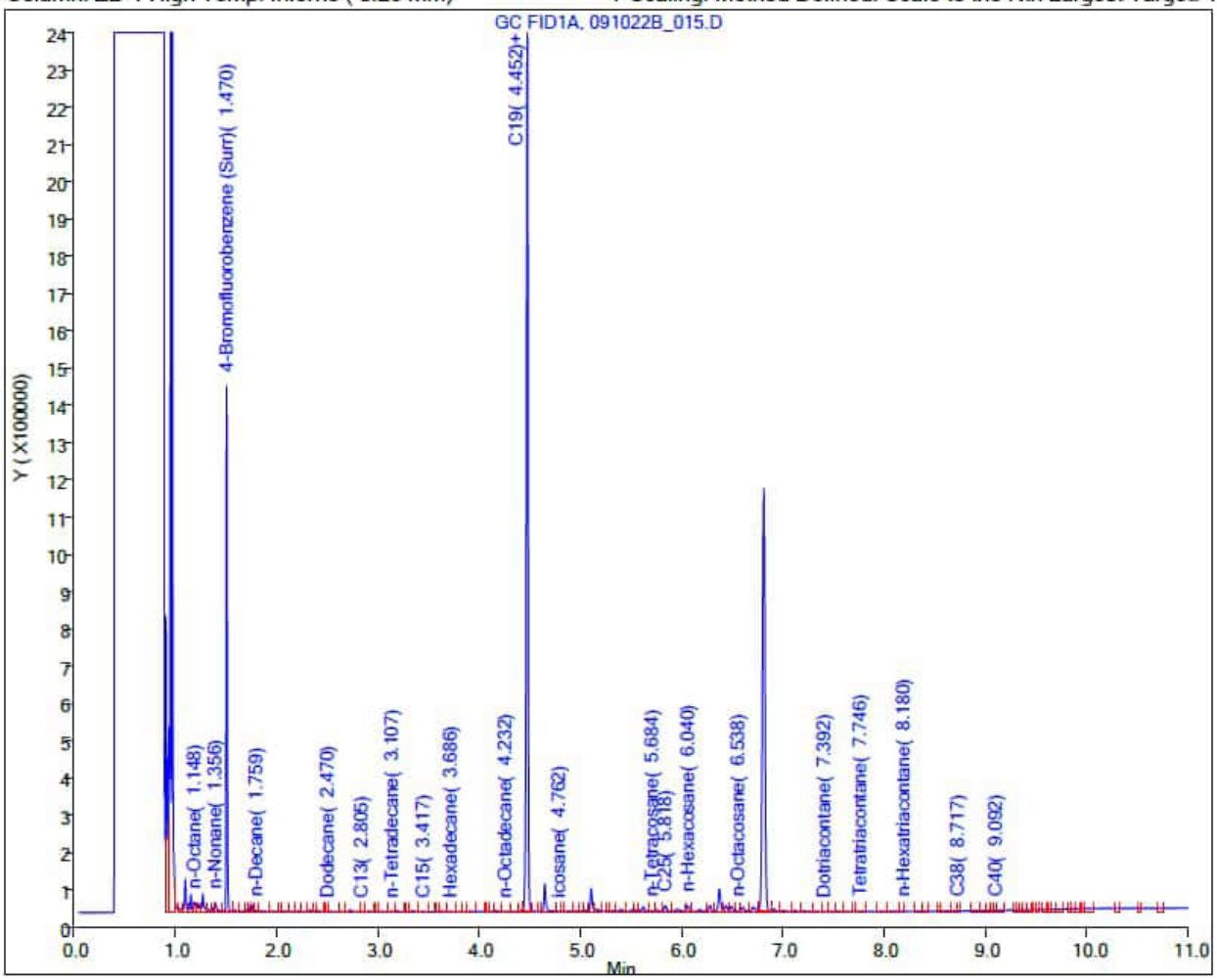
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 12-Sep-2022 13:12:26 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220909-84751.b\091022B_015.D				
Injection Date:	10-Sep-2022 02:49:30	Instrument ID:	TAC020		
Lims ID:	580-117637-Q-4-A	Lab Sample ID:	580-117637-4		
Client ID:	OWDFMW05A-WGN01LF-2209WK1				
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW05A Sample ID: OWDFMW05A-WGN01LF-2209WK2 Sample Date: 9/12/2022
Lab: Eurofins Seattle

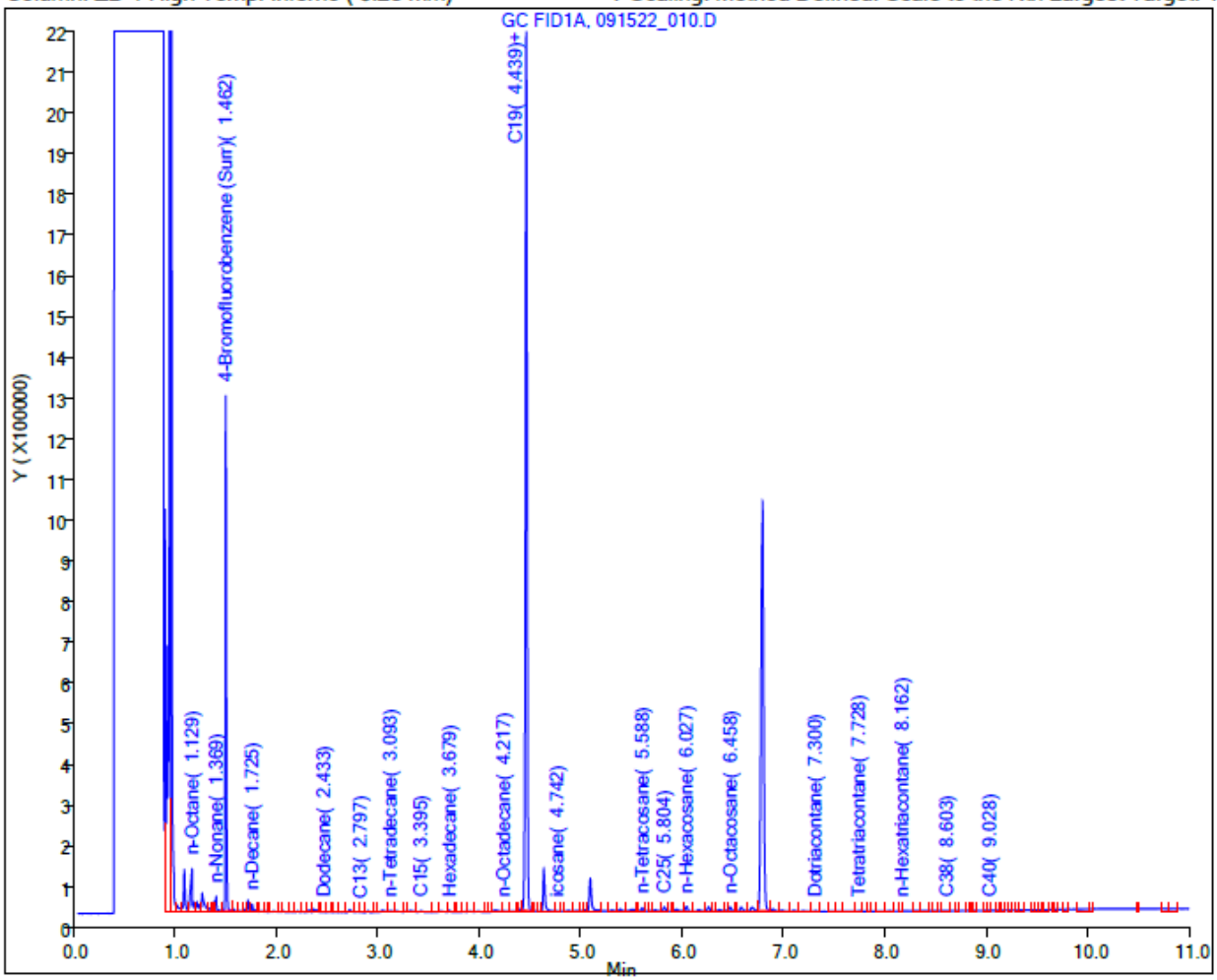
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 16-Sep-2022 14:26:14 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220915-84852.b\091522_010.D				
Injection Date:	15-Sep-2022 20:45:30	Instrument ID:	TAC020		
Lims ID:	580-117798-F-5-A	Lab Sample ID:	580-117798-5		
Client ID:	OWDFMW05A-WGN01LF-2209WK2				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW05A Sample ID: OWDFMW05A-WGN01LF-2209WK3 Sample Date: 9/19/2022
Lab: Eurofins Seattle

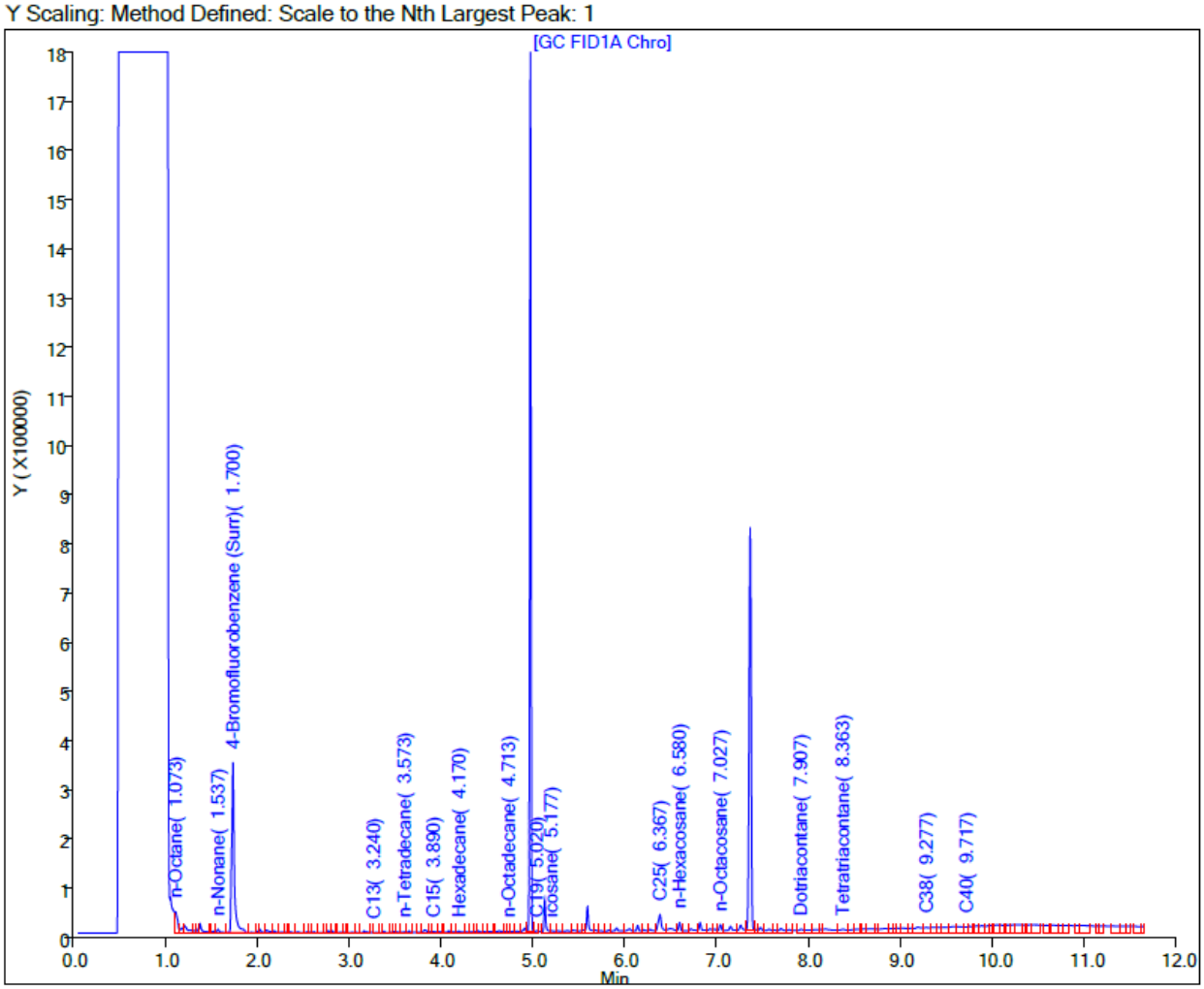
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 24-Sep-2022 22:00:36 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220923-84999.b\092322A014.D				
Injection Date:	23-Sep-2022 18:33:27	Instrument ID:	TAC129		
Lims ID:	580-118121-P-1-A	Lab Sample ID:	580-118121-1		
Client ID:	OWDFMW05A-WGN01LF-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW05A Sample ID: OWDFMW05A-WGN01LF-2210WK1 Sample Date: 10/3/2022
Lab: Eurofins Seattle

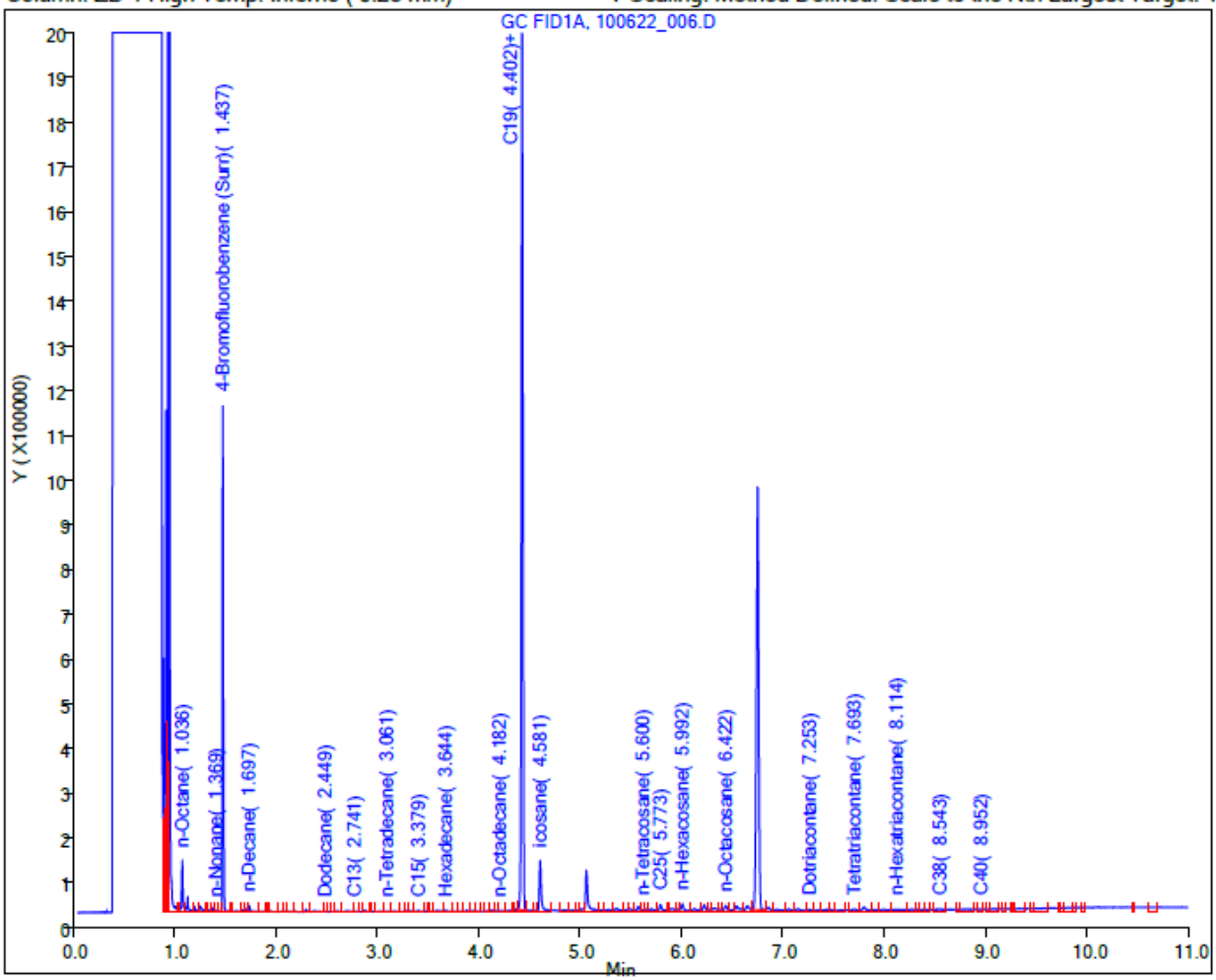
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 06-Oct-2022 19:27:56 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221006-85225.b\100622_006.D				
Injection Date:	06-Oct-2022 16:12:30	Instrument ID:	TAC020		
Lims ID:	580-118476-P-4-A	Lab Sample ID:	580-118476-4		
Client ID:	OWDFMW05A-WGN01LF-2210WK1				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW07A Sample ID: OWDFMW07A-WGN01LF-2208WK2 Sample Date: 8/11/2022
Lab: Eurofins Seattle

Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 19-Aug-2022 13:46:46 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220818-84373.b\081822B_035A.D				
Injection Date:	19-Aug-2022 02:55:30	Instrument ID:	TAC020		
Lims ID:	580-116926-P-1-A	Lab Sample ID:	580-116926-1		
Client ID:	OWDFMW07A-WGN01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	33	Worklist Smp#:	70
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

No Silica Gel Cleanup performed.

Location: OWDFMW07A Sample ID: OWDFMW07A-WGN01LF-2208WK3 Sample Date: 8/18/2022
Lab: Eurofins Seattle

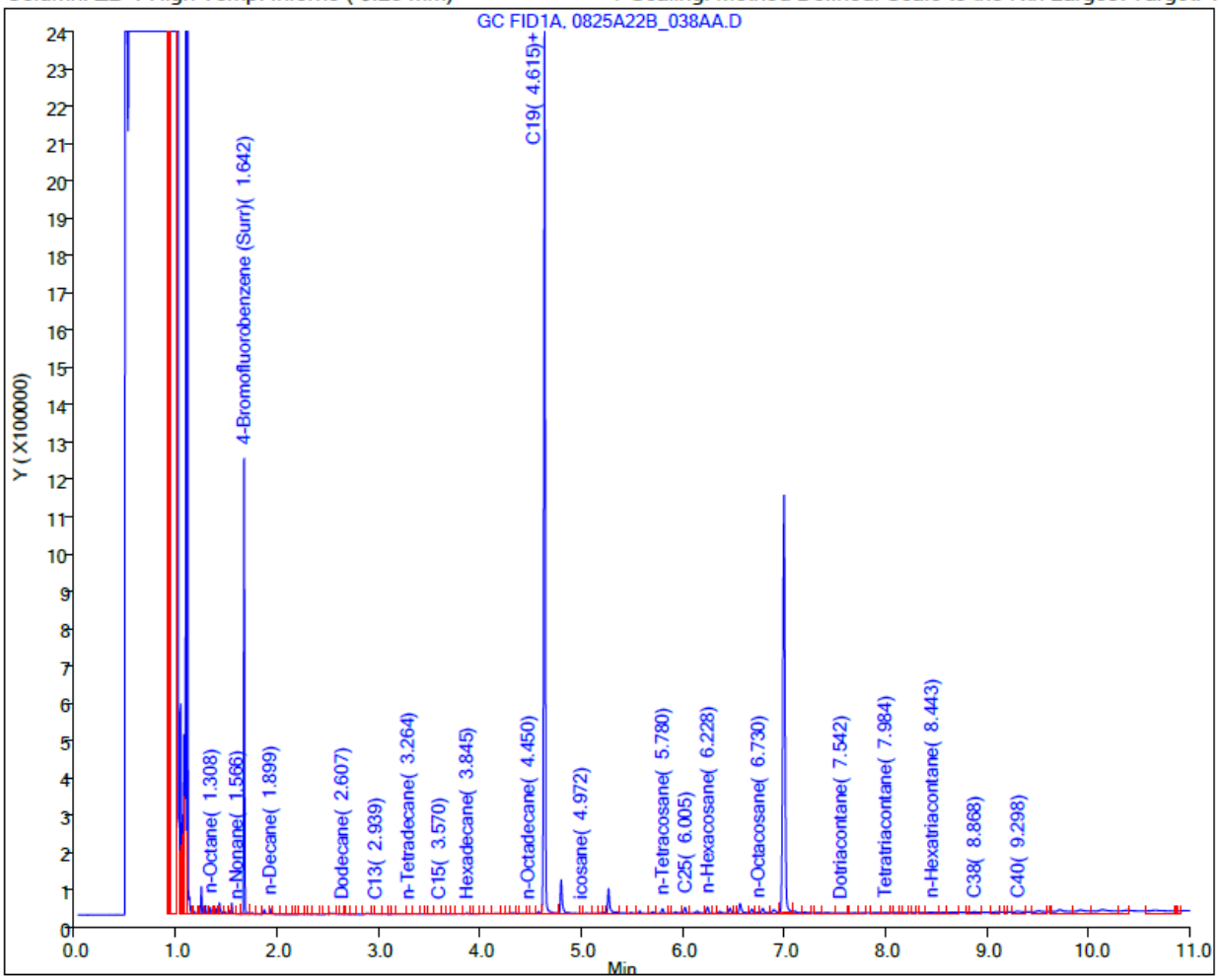
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 28-Aug-2022 22:42:48 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84521.b\0825A22B_038AA.D				
Injection Date:	26-Aug-2022 12:24:30	Instrument ID:	TAC020		
Lims ID:	580-117150-P-5-C	Lab Sample ID:	580-117150-5		
Client ID:	OWDFMW07A-WGN01LF-2208WK3				
Operator ID:	DH	ALS Bottle#:	37	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW07A Sample ID: OWDFMW07A-WGN01LF-2208WK4 Sample Date: 8/23/2022
Lab: Eurofins Seattle

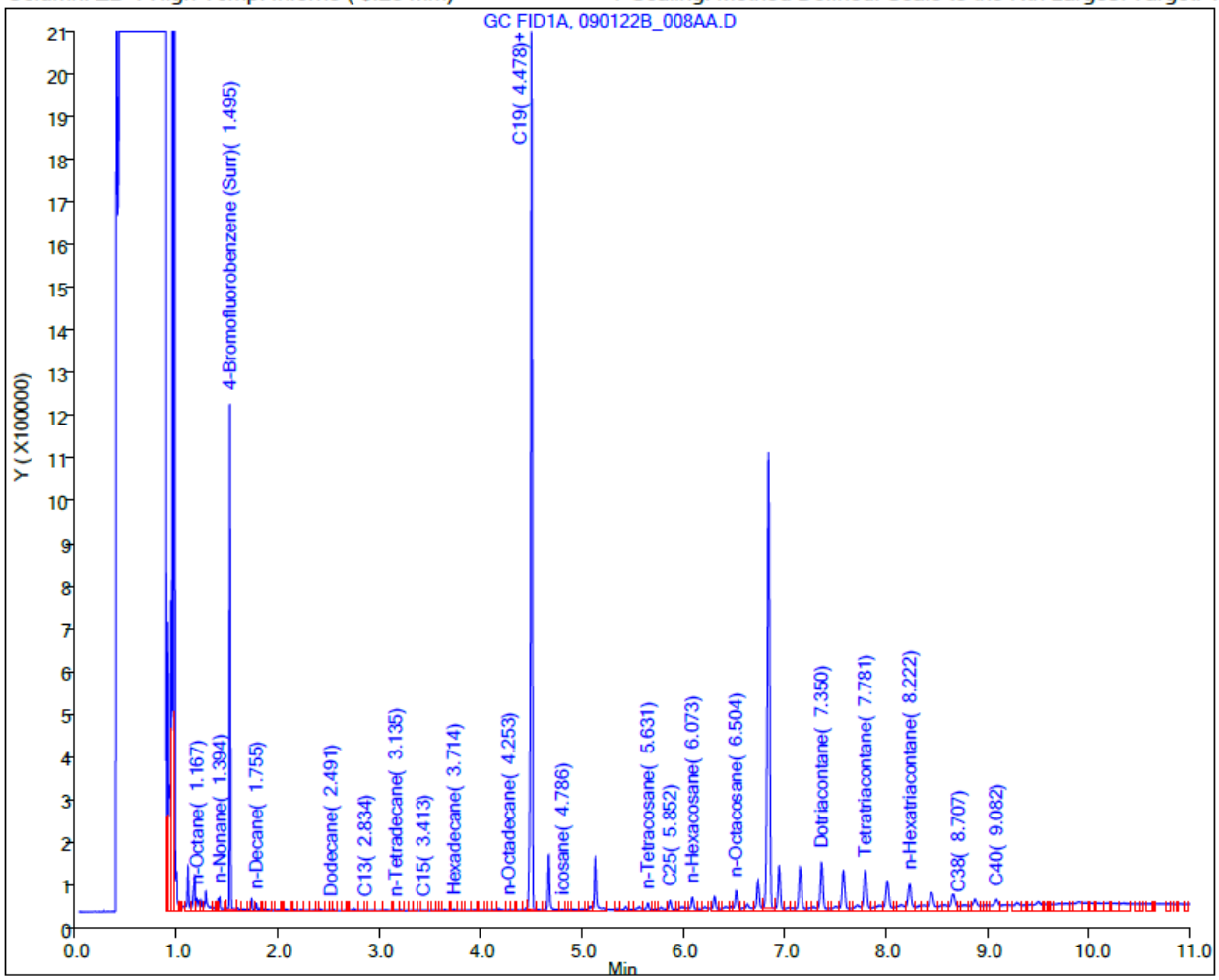
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 02-Sep-2022 22:48:43 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220901-84631.b\090122B_008AA.D				
Injection Date:	02-Sep-2022 00:03:30	Instrument ID:	TAC020		
Lims ID:	580-117247-F-11-A	Lab Sample ID:	580-117247-11		
Client ID:	OWDFMW07A-WGN01LF-2208WK4				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW07A Sample ID: OWDFMW07A-WGN01LF-2208WK5 Sample Date: 8/30/2022
Lab: Eurofins Seattle

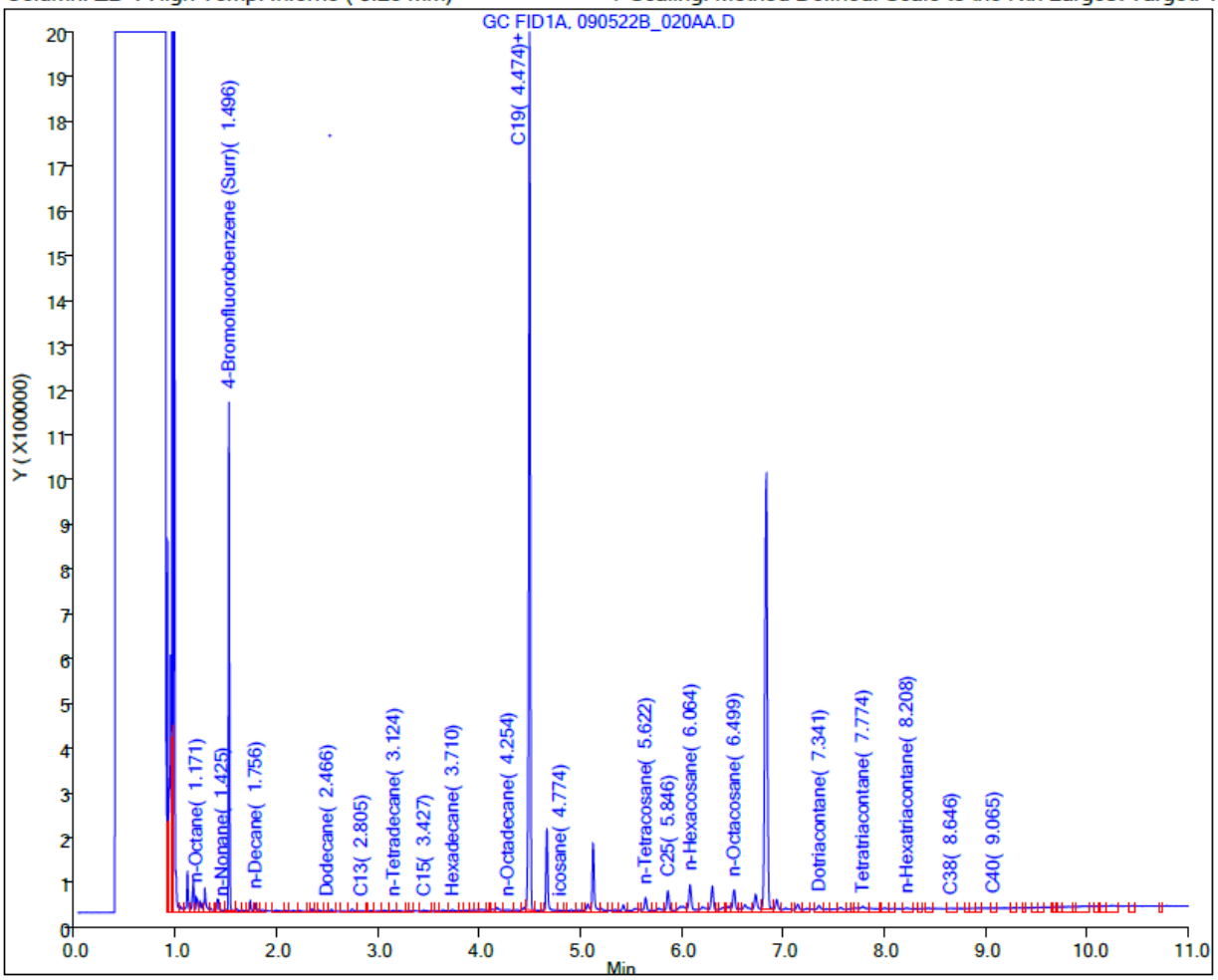
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 12-Sep-2022 08:40:54 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_020AA.D				
Injection Date:	06-Sep-2022 03:23:30	Instrument ID:	TAC020		
Lims ID:	580-117453-F-1-A	Lab Sample ID:	580-117453-1		
Client ID:	OWDFMW07A-WGN01LF-2208WK5				
Operator ID:	DH	ALS Bottle#:	19	Worklist Smp#:	80
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: OWDFMW07A Sample ID: OWDFMW07A-WGN01LF-2209WK2 Sample Date: 9/15/2022
Lab: Eurofins Seattle

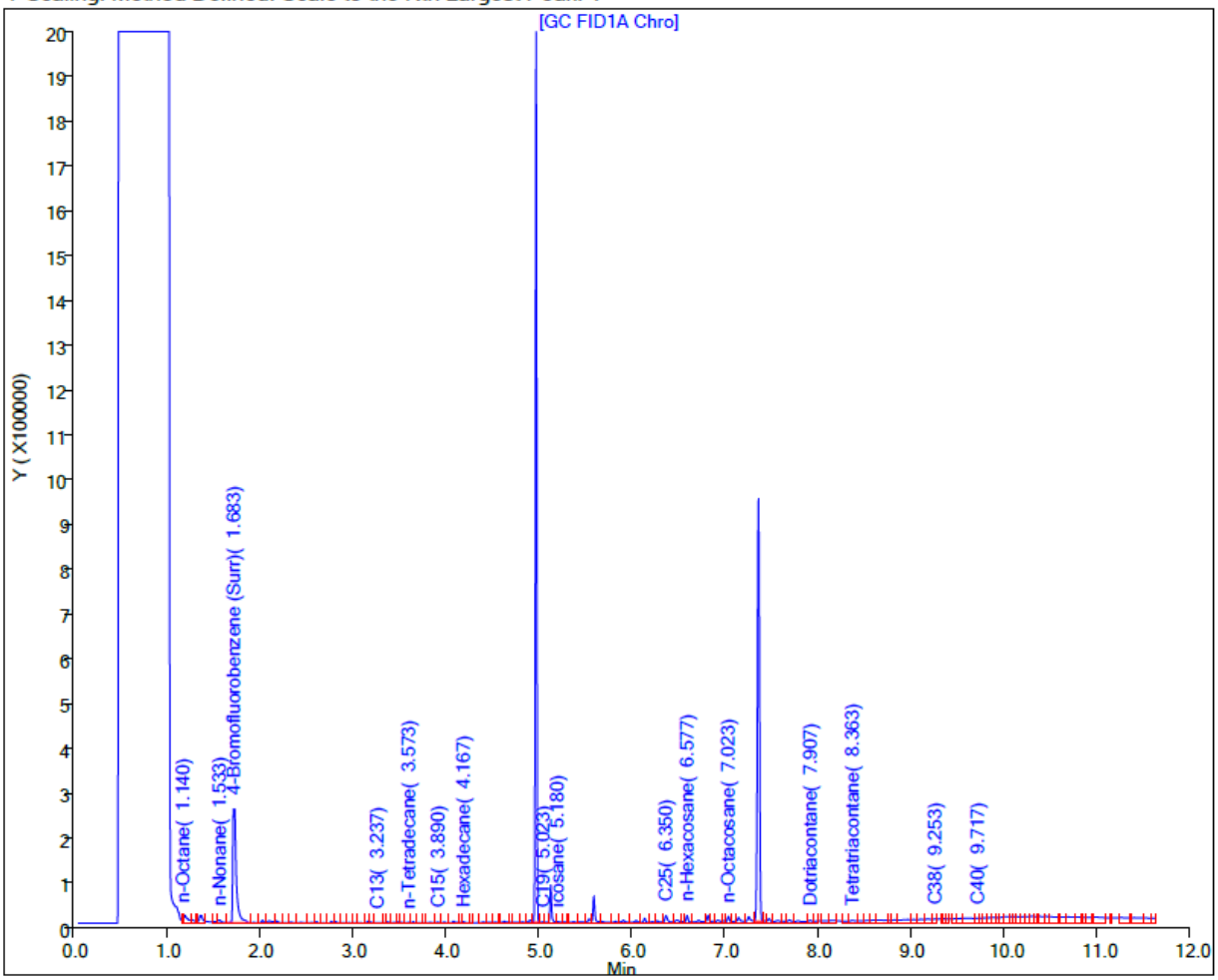
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 22-Sep-2022 20:48:46 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220921-84938.b\092122A042.D				
Injection Date:	21-Sep-2022 20:38:29	Instrument ID:	TAC129		
Lims ID:	580-117960-E-1-A	Lab Sample ID:	580-117960-1		
Client ID:	OWDFMW07A-WGN01LF-2209WK2				
Operator ID:	ADB	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW08A Sample ID: OWDFM08A-WGN01LF-2208WK2 Sample Date: 8/11/2022
Lab: Eurofins Seattle

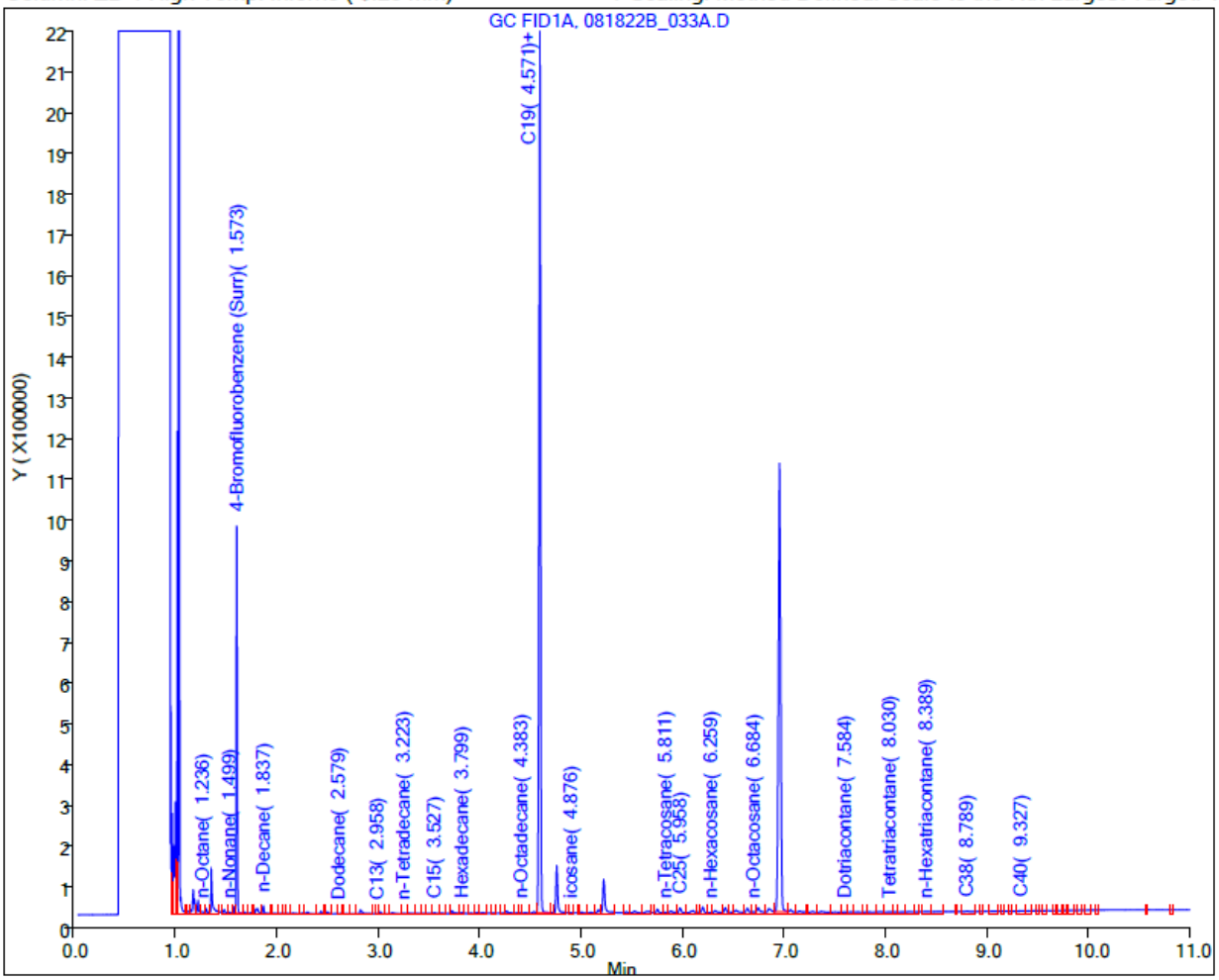
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 19-Aug-2022 13:46:37 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220818-84373.b\081822B_033A.D				
Injection Date:	19-Aug-2022 02:14:30	Instrument ID:	TAC020		
Lims ID:	580-116925-P-1-A	Lab Sample ID:	580-116925-1		
Client ID:	OWDFMW08A-WGN01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	31	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW08A Sample ID: OWDFM08A-WGFD01LF-2208WK2 Sample Date: 8/11/2022
Lab: Eurofins Seattle

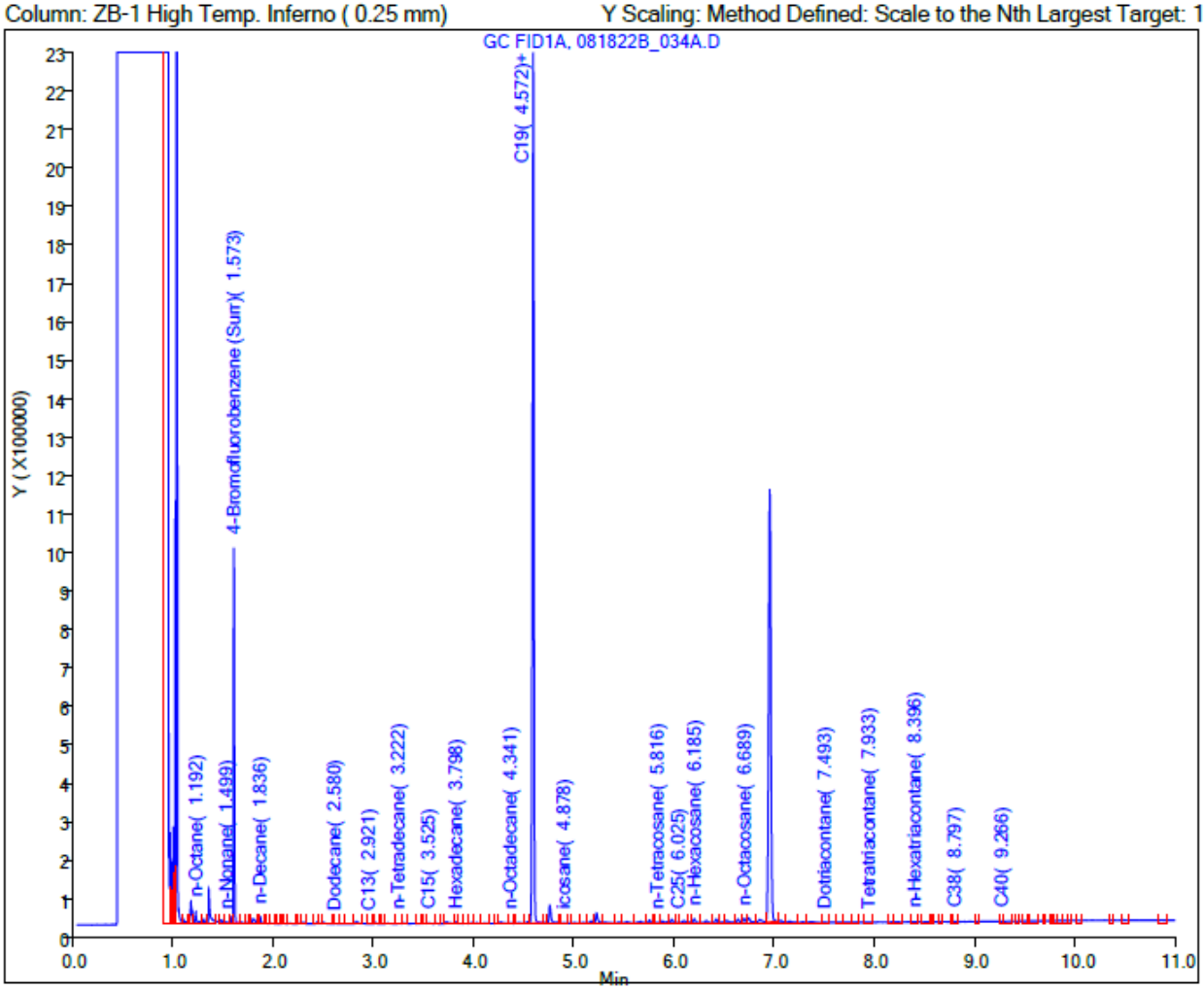
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 19-Aug-2022 13:46:42 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220818-84373.b\081822B_034A.D				
Injection Date:	19-Aug-2022 02:34:30	Instrument ID:	TAC020		
Lims ID:	580-116925-G-3-A	Lab Sample ID:	580-116925-3		
Client ID:	OWDFMW08A-WGFD01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	32	Worklist Smp#:	69
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW08A Sample ID: OWDFMW08A-WGN01LF-2208WK3 Sample Date: 8/19/2022
Lab: Eurofins Seattle

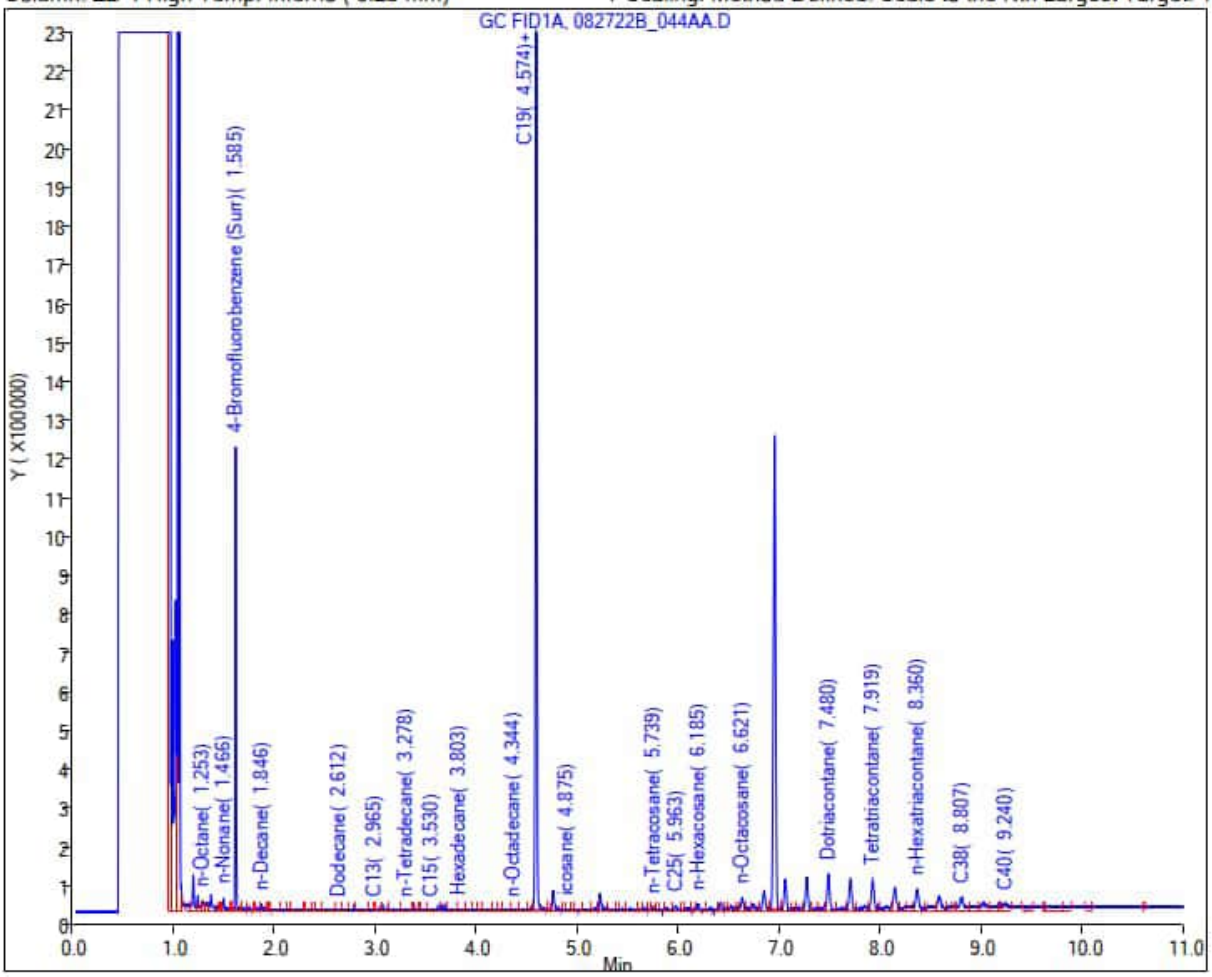
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 29-Aug-2022 14:35:34 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84528.b\082722B_044AA.D				
Injection Date:	27-Aug-2022 13:08:30	Instrument ID:	TAC020		
Lims ID:	580-117150-P-1-E	Lab Sample ID:	Client 580-402092/93-A		
Client ID:					
Operator ID:	DH	ALS Bottle#:	44	Worklist Smp#:	93
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW08A Sample ID: OWDFMW08A-WGFD01LF-2208WK3 Sample Date: 8/19/2022
Lab: Eurofins Seattle

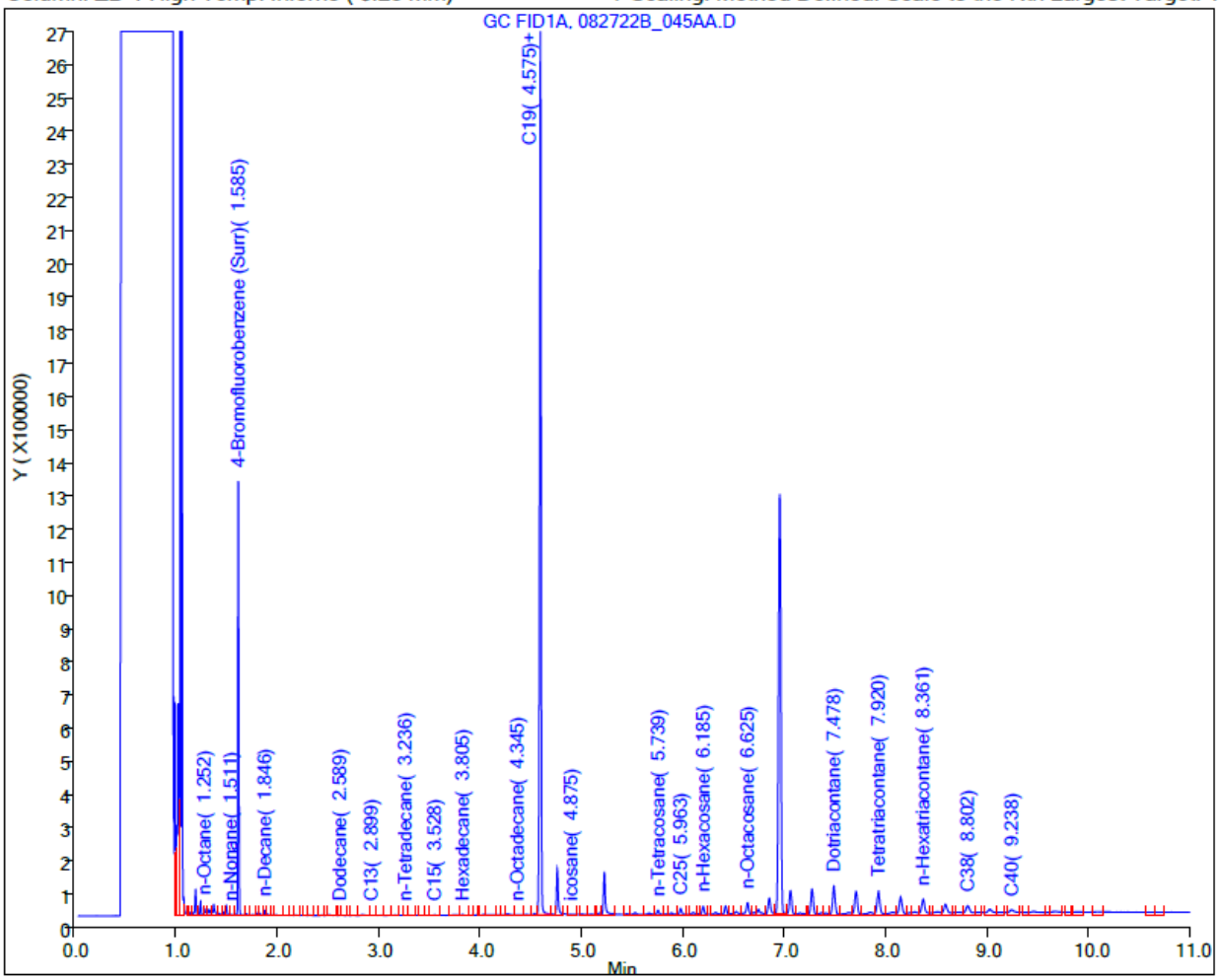
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <300 U

Report Date: 29-Aug-2022 14:35:38 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84528.b\082722B_045AA.D				
Injection Date:	27-Aug-2022 13:29:30	Instrument ID:	TAC020		
Lims ID:	580-117150-G-3-A	Lab Sample ID:	580-117150-3		
Client ID:	OWDFMW08A-WGFD01LF-2208WK3				
Operator ID:	DH	ALS Bottle#:	45	Worklist Smp#:	96
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: OWDFMW08A Sample ID: OWDFMW08A-WGN01LF-2209WK2 Sample Date: 9/15/2022
Lab: Eurofins Seattle

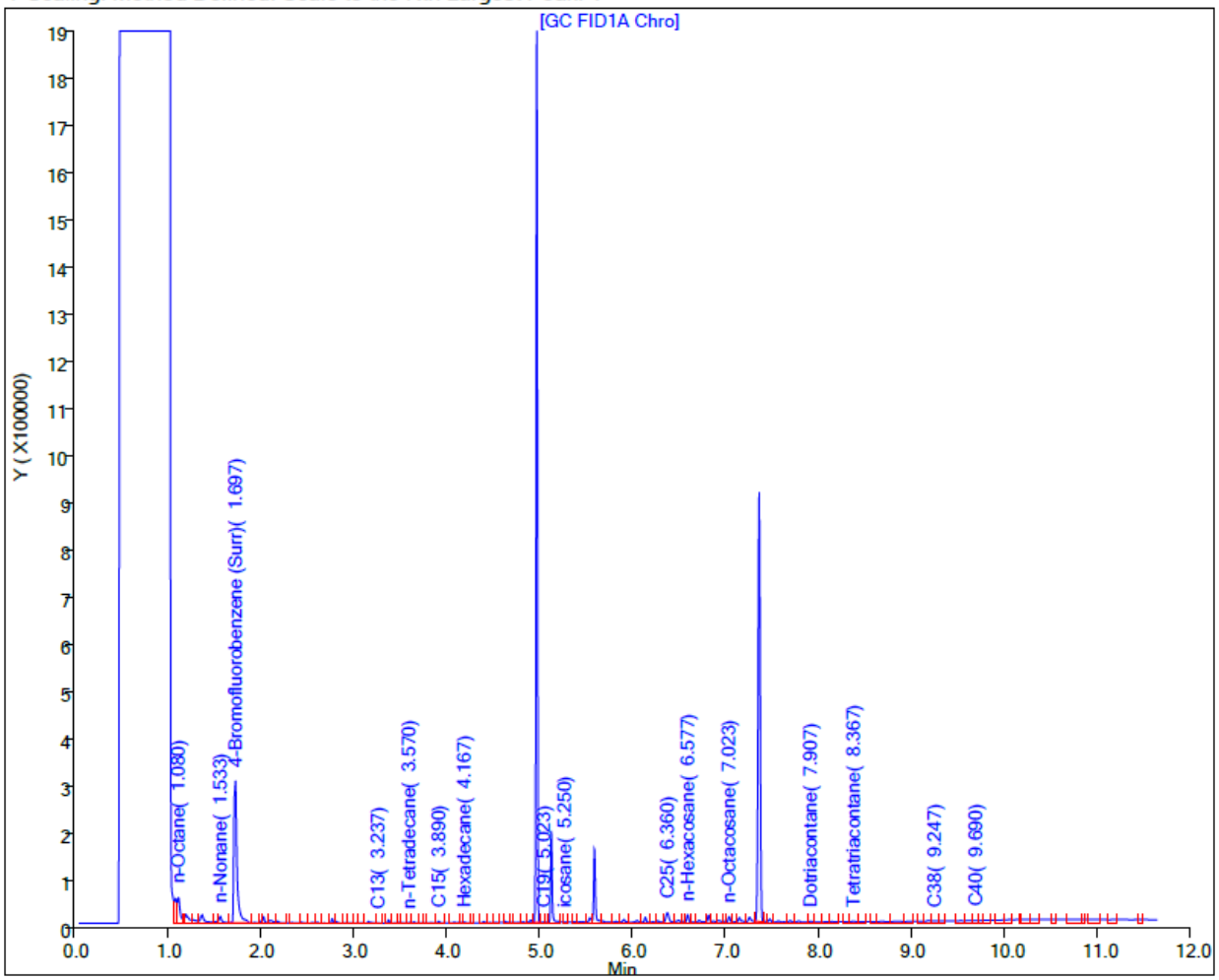
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 22-Sep-2022 20:48:50 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220921-84938.b\092122A044.D				
Injection Date:	21-Sep-2022 20:57:24	Instrument ID:	TAC129		
Lims ID:	580-117960-E-5-A	Lab Sample ID:	580-117960-5		
Client ID:	OWDFMW08A-WGN01LF-2209WK2				
Operator ID:	ADB	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW08A Sample ID: OWDFM08A-WGFD01LF-2209WK2 Sample Date: 9/15/2022
Lab: Eurofins Seattle

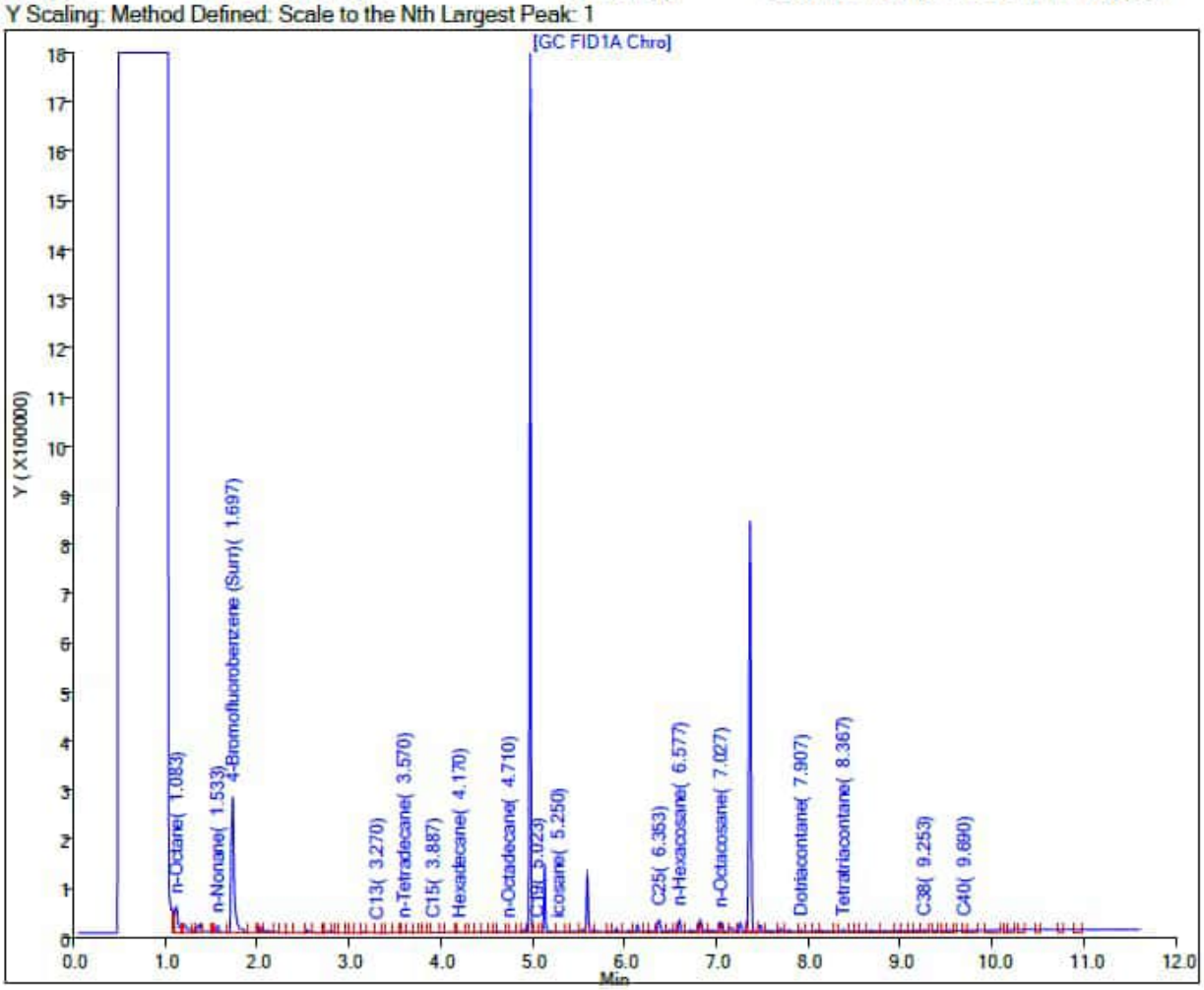
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 22-Sep-2022 20:48:53 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220921-84938.b\092122A046.D				
Injection Date:	21-Sep-2022 21:16:20	Instrument ID:	TAC129		
Lims ID:	580-117960-B-7-A	Lab Sample ID:	580-117960-7		
Client ID:	OWDFMW08A-WGFD01LF-2209WK2				
Operator ID:	ADB	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW08A Sample ID: OWDFMW08A-WGN01LF-2209WK3 Sample Date: 9/22/2022
Lab: Eurofins Seattle

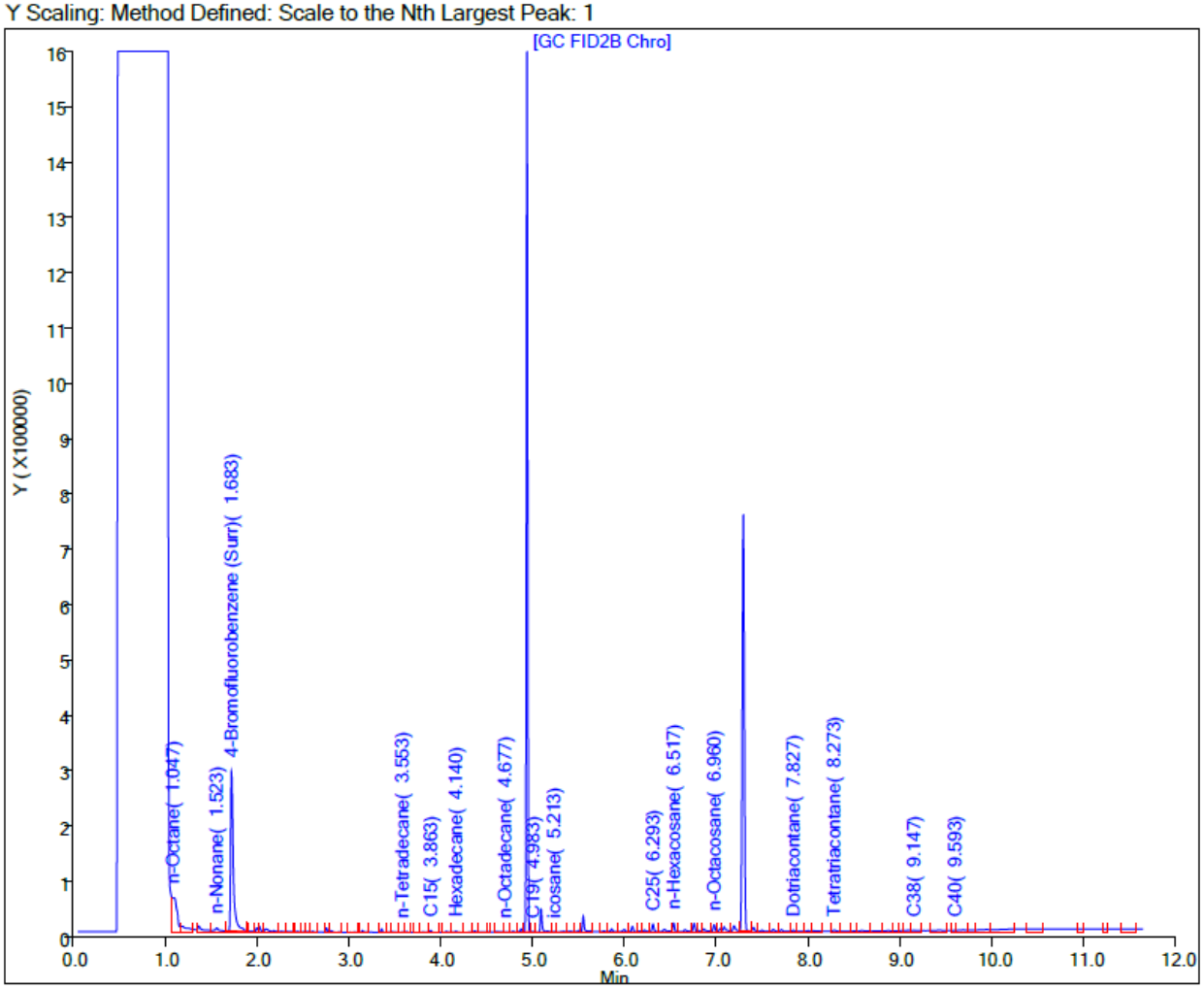
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 29-Sep-2022 15:58:50 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220928-85077.b\092822A021.D				
Injection Date:	28-Sep-2022 20:45:29	Instrument ID:	TAC129_R		
Lims ID:	580-118243-C-5-A	Lab Sample ID:	580-118243-5		
Client ID:	OWDFMW08A-WGN01LF-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: OWDFMW08A Sample ID: OWDFM08A-WGFD01LF-2209WK3 Sample Date: 9/22/2022
Lab: Eurofins Seattle

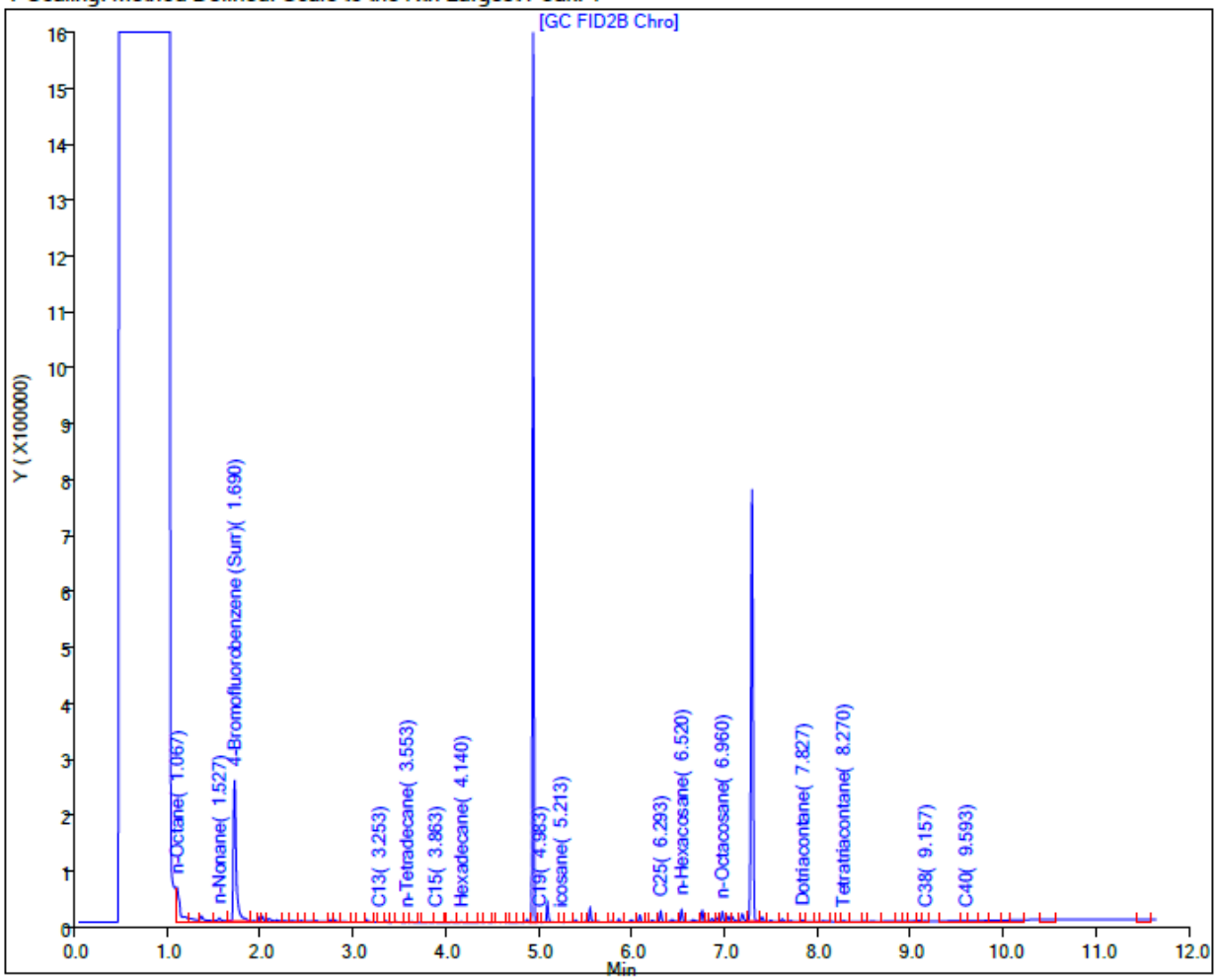
Results (ug/L): TPH-d (C10 to C24) <100 U TPH-o (C24 to C40) <310 U

Report Date: 29-Sep-2022 15:58:54 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220928-85077.b\092822A023.D				
Injection Date:	28-Sep-2022 21:04:28	Instrument ID:	TAC129_R		
Lims ID:	580-118243-C-7-A	Lab Sample ID:	580-118243-7		
Client ID:	OWDFMW08A-WGFD01LF-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: RHMW02 Sample ID: RHMW02-WGN01B-2208WK2 Sample Date: 8/9/2022

Results (ug/L): TPH-d (C10 to C24) 3200 TPH-o (C24 to C40) 210 J

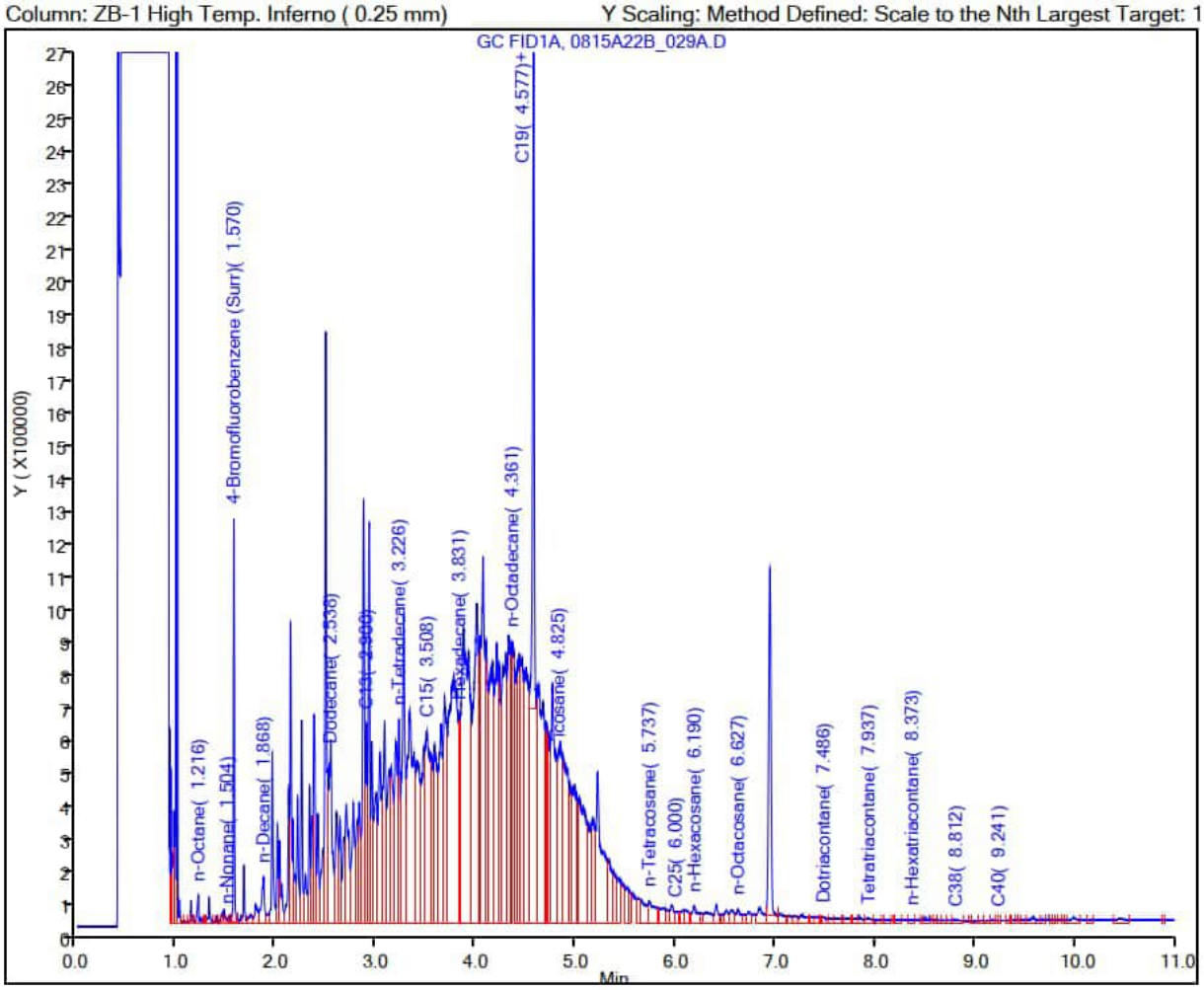
Lab: Eurofins Seattle

Report Date: 08-Sep-2022 13:14:43 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220815-84310.b\0815A22B_029A.D				
Injection Date:	16-Aug-2022 04:18:30	Instrument ID:	TAC020		
Lims ID:	580-116809-F-5-A	Lab Sample ID:	580-116809-5		
Client ID:	RHMW02-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



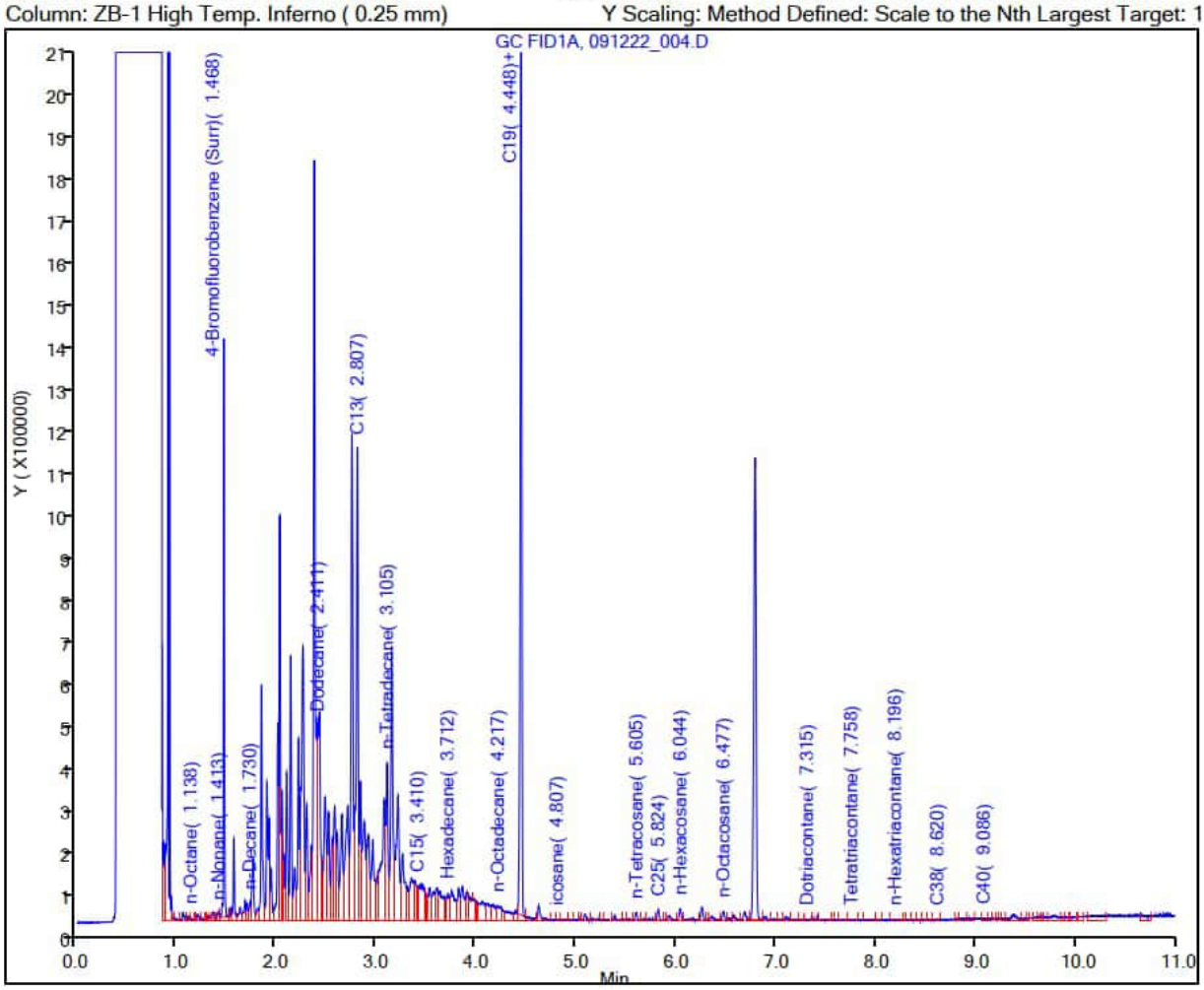
Results (ug/L): TPH-d SGC (C10 to C24) 1100 TPH-o SGC (C24 to C40) 370

Report Date: 12-Sep-2022 13:57:46 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84774.b\091222_004.D				
Injection Date:	12-Sep-2022 11:36:30	Instrument ID:	TAC020		
Lims ID:	580-116809-F-5-C	Lab Sample ID:	580-116809-5		
Client ID:	RHMW02-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	40	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW02 Sample ID: RHMW02-WGN01B-2208WK3 Sample Date: 8/16/2022

Lab: Eurofins Seattle

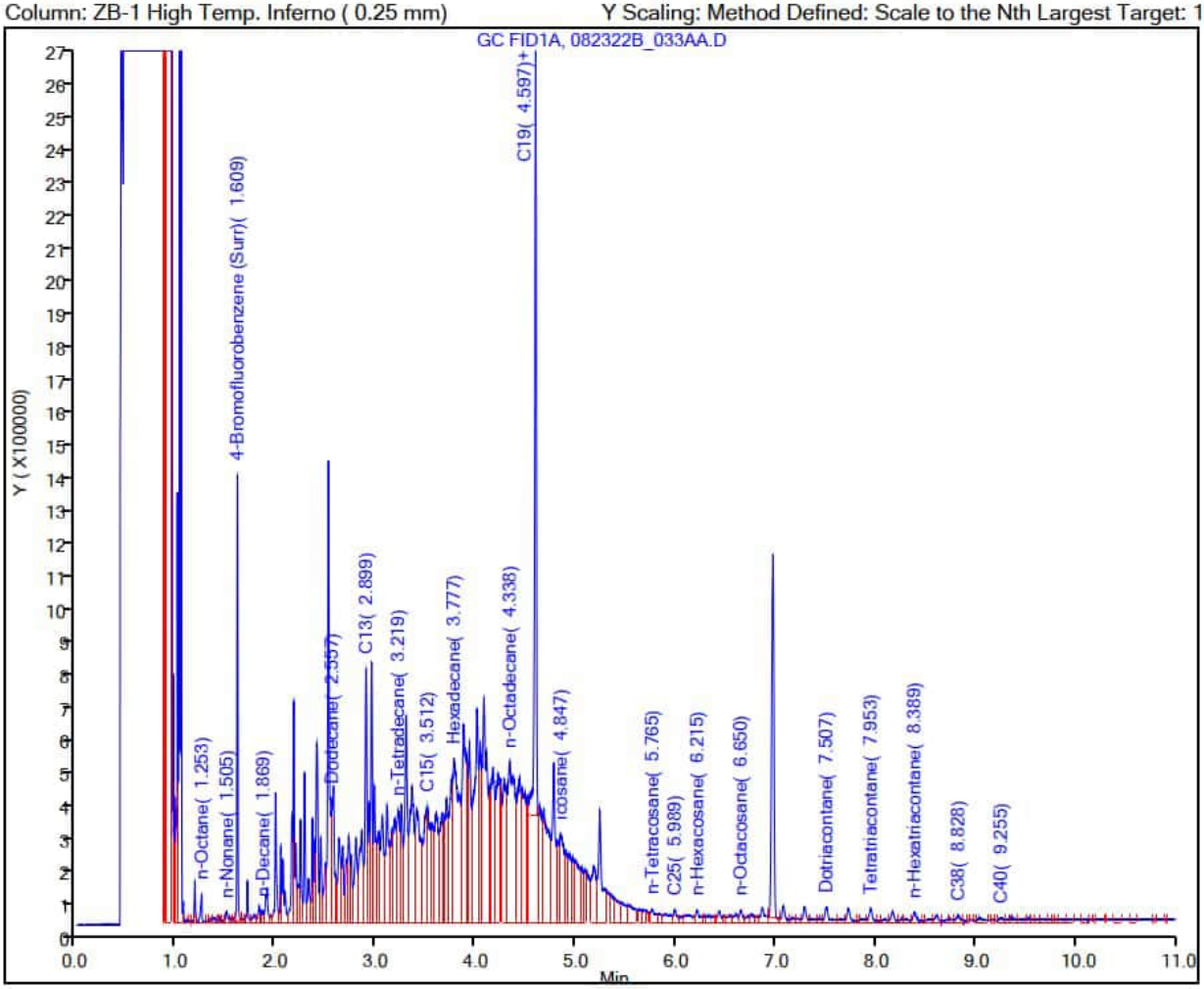
Results (ug/L): TPH-d (C10 to C24) 1900 TPH-o (C24 to C40) <310 U

Report Date: 24-Aug-2022 09:26:14 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_033AA.D				
Injection Date:	24-Aug-2022 04:48:30	Instrument ID:	TAC020		
Lims ID:	580-117032-C-15-A	Lab Sample ID:	580-117032-15		
Client ID:	RHMW02-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	33	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



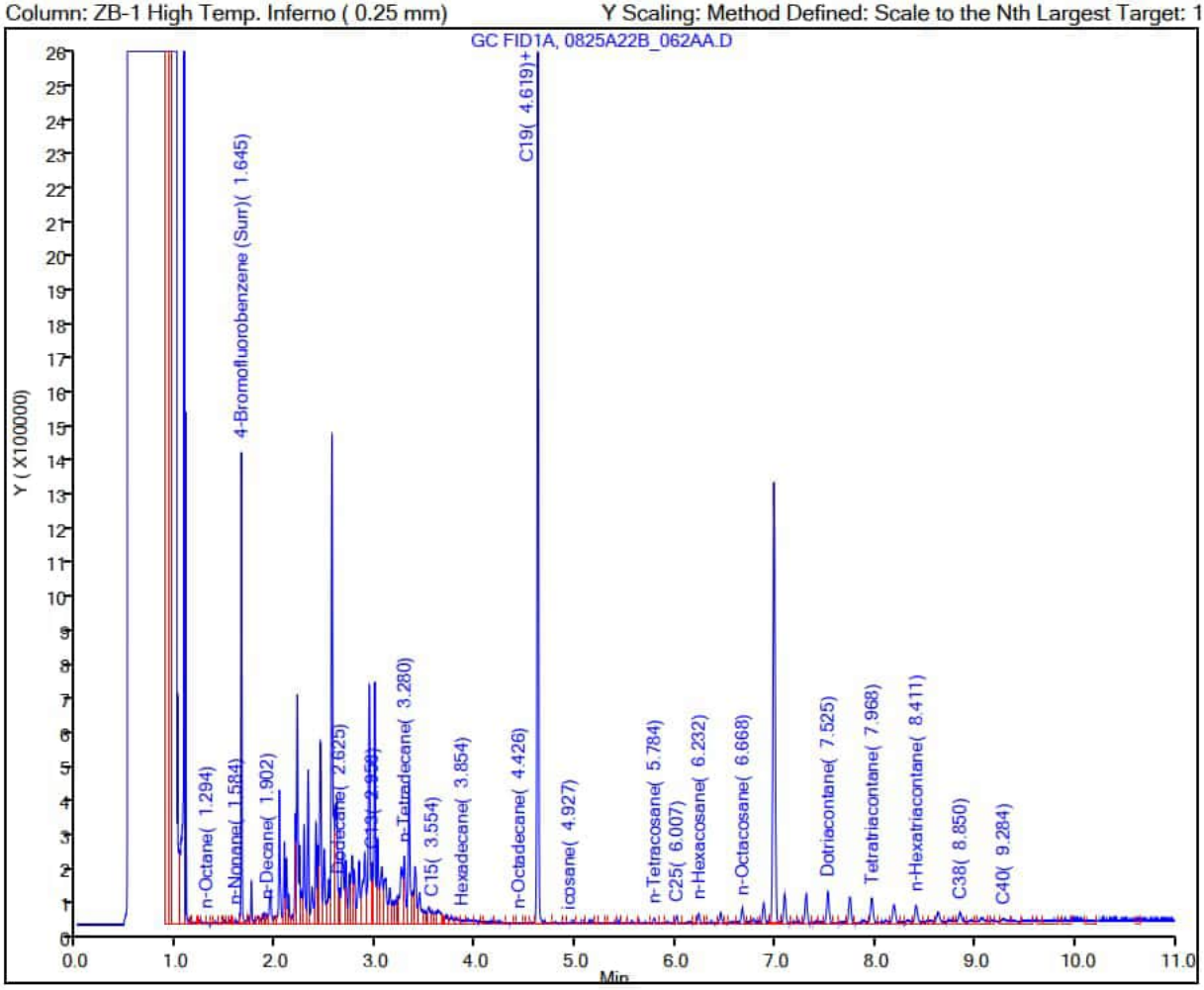
Results (ug/L): TPH-d SGC (C10 to C24) 440 TPH-o SGC (C24 to C40) <310 U

Report Date: 26-Aug-2022 21:18:37 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84521.b\0825A22B_062AA.D				
Injection Date:	26-Aug-2022 20:41:30	Instrument ID:	TAC020		
Lims ID:	580-117032-C-15-B	Lab Sample ID:	580-117032-15		
Client ID:	RHMW02-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	61	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW02 Sample ID: RHMW02-WGN01B-2208WK5 Sample Date: 8/30/2022

Lab: Eurofins Seattle

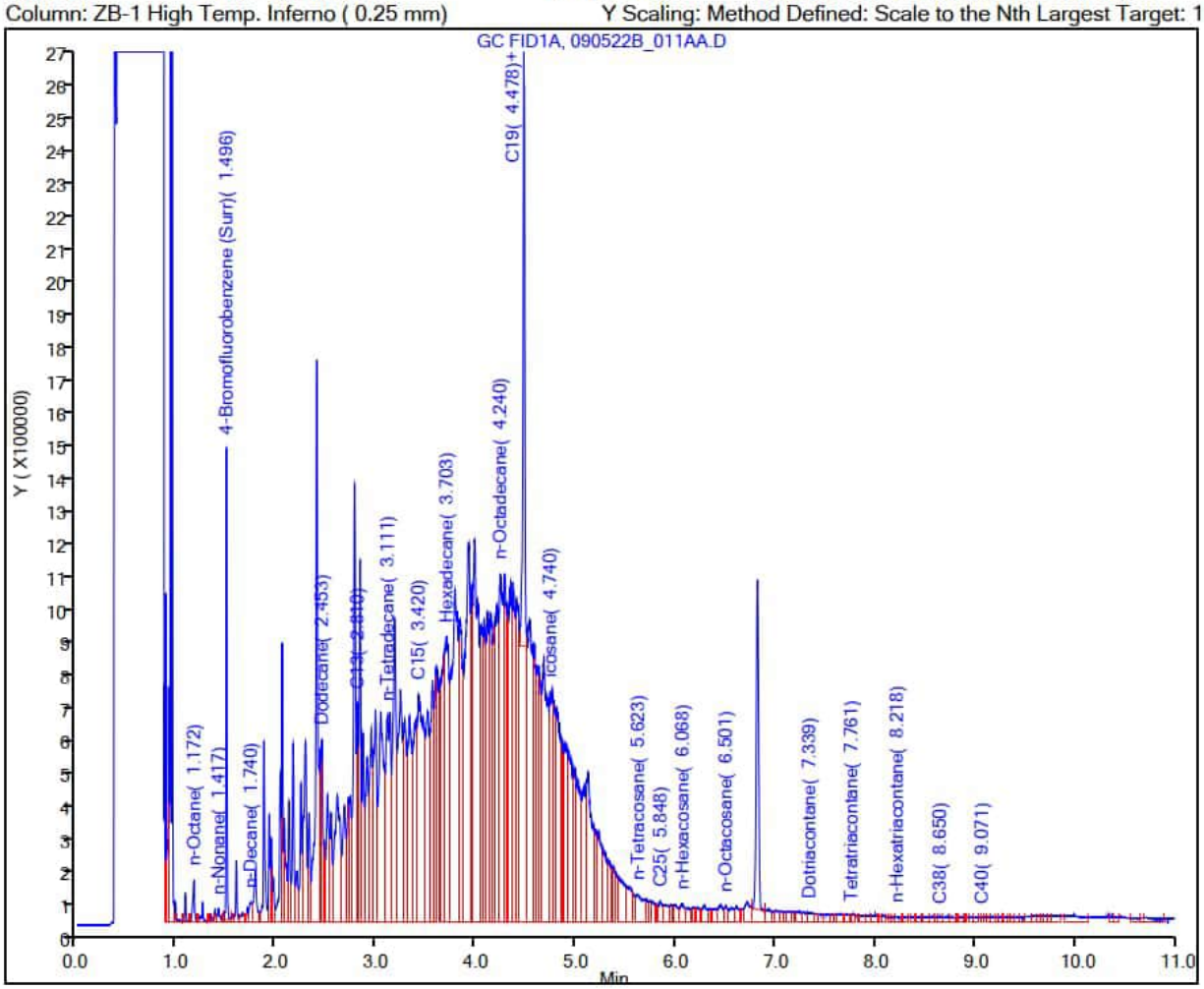
Results (ug/L): TPH-d (C10 to C24) 4000 TPH-o (C24 to C40) 350 J

Report Date: 12-Sep-2022 12:55:05 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_011AA.D				
Injection Date:	06-Sep-2022 00:22:30	Instrument ID:	TAC020		
Lims ID:	580-117486-F-1-A	Lab Sample ID:	580-117486-1		
Client ID:	RHWMW02-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	71
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



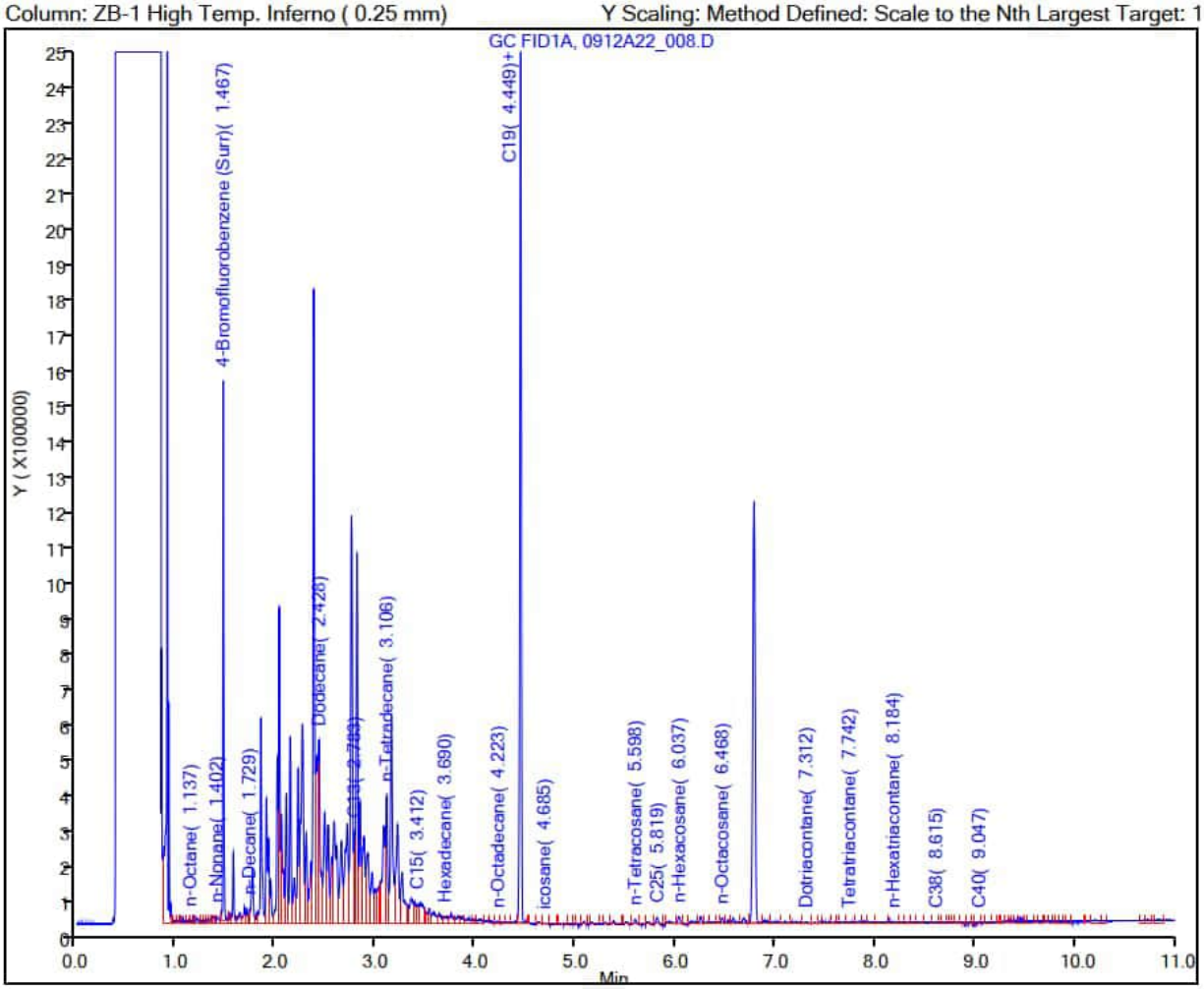
Results (ug/L): TPH-d SGC (C10 to C24) 710 TPH-o SGC (C24 to C40) < 310 U Q

Report Date: 12-Sep-2022 22:00:21 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_008.D				
Injection Date:	12-Sep-2022 19:39:30	Instrument ID:	TAC020		
Lims ID:	580-117486-F-1-B	Lab Sample ID:	580-117486-1		
Client ID:	RHWMW02-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: RHMW02 Sample ID: RHMW02-WGN01B-2209WK3 Sample Date: 9/20/2022
Lab: Eurofins Seattle

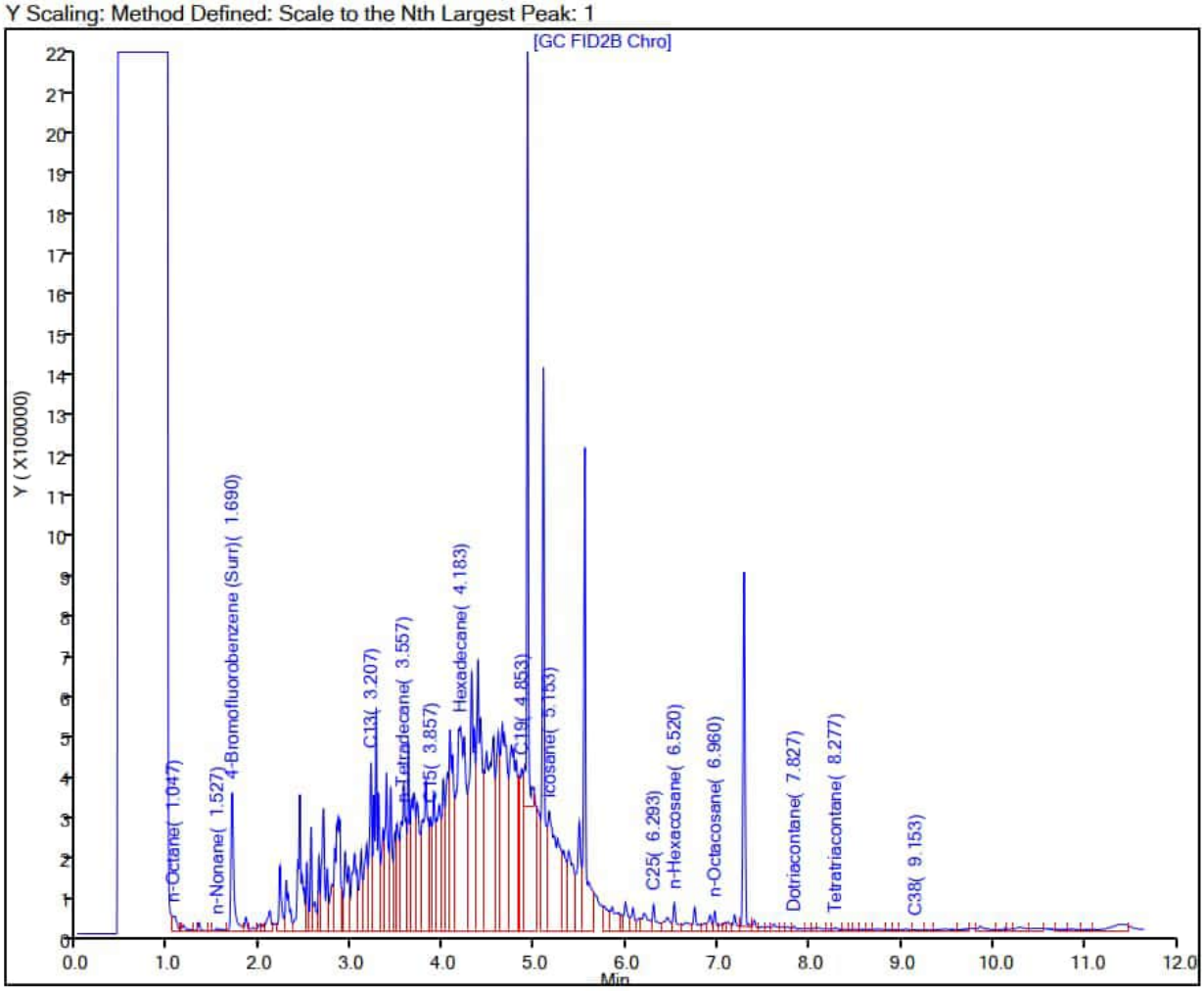
Results (ug/L): TPH-d (C10 to C24) 2900 TPH-o (C24 to C40) 260 J

Report Date: 28-Sep-2022 14:38:20 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A019.D				
Injection Date:	27-Sep-2022 18:37:55	Instrument ID:	TAC129_R		
Lims ID:	580-118153-C-11-A	Lab Sample ID:	580-118153-11		
Client ID:	RHMW02-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



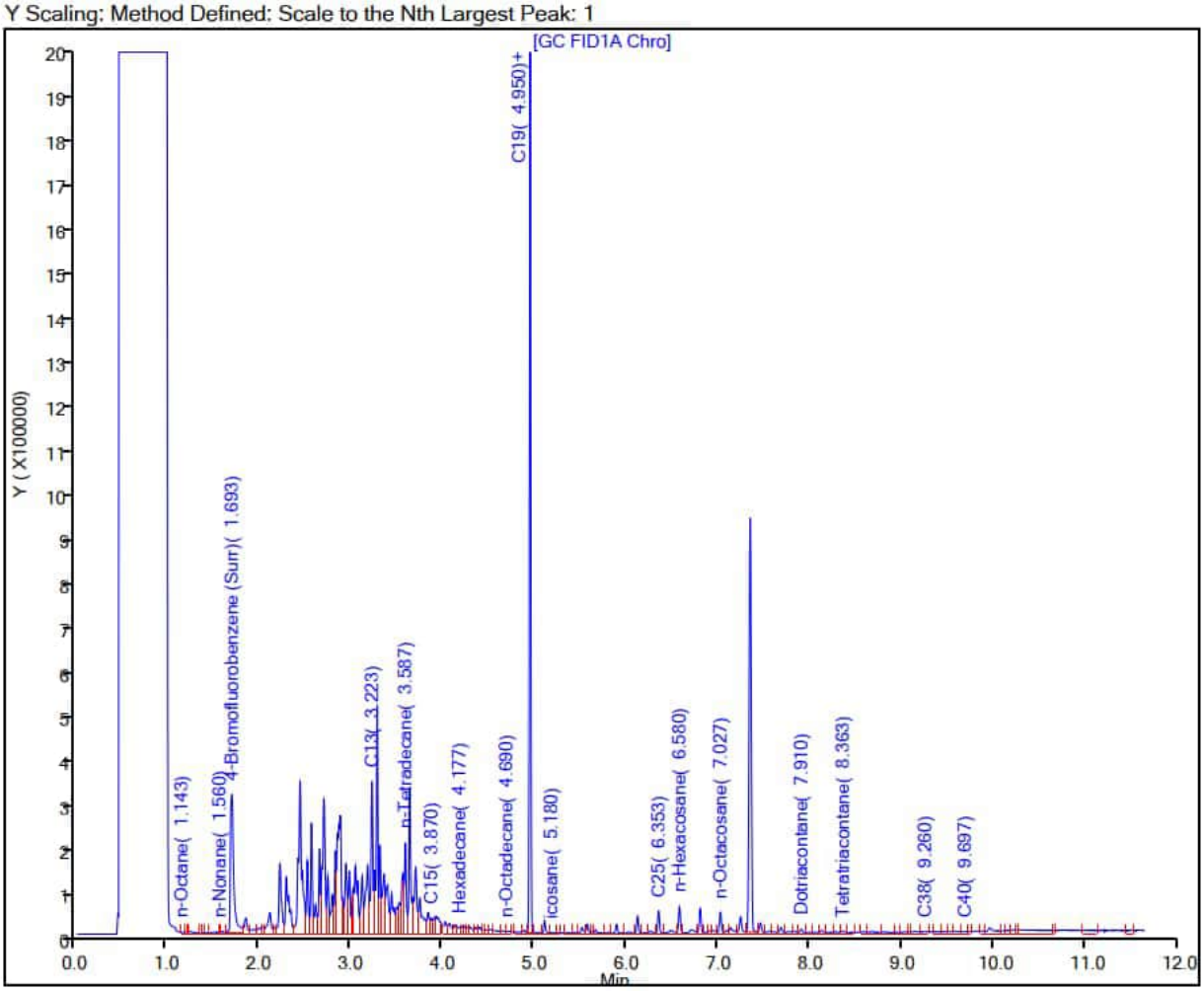
Results (ug/L): TPH-d SGC (C10 to C24) 510 TPH-o SGC (C24 to C40) <310 U

Report Date: 29-Sep-2022 14:44:03 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220928-85071.b\092822A018.D				
Injection Date:	28-Sep-2022 20:07:33	Instrument ID:	TAC129		
Lims ID:	580-118153-C-11-B	Lab Sample ID:	580-118153-11		
Client ID:	RHMW02-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: RHMW02 Sample ID: RHMW02-WGN01B-2209WK4 Sample Date: 9/27/2022
Lab: Eurofins Seattle

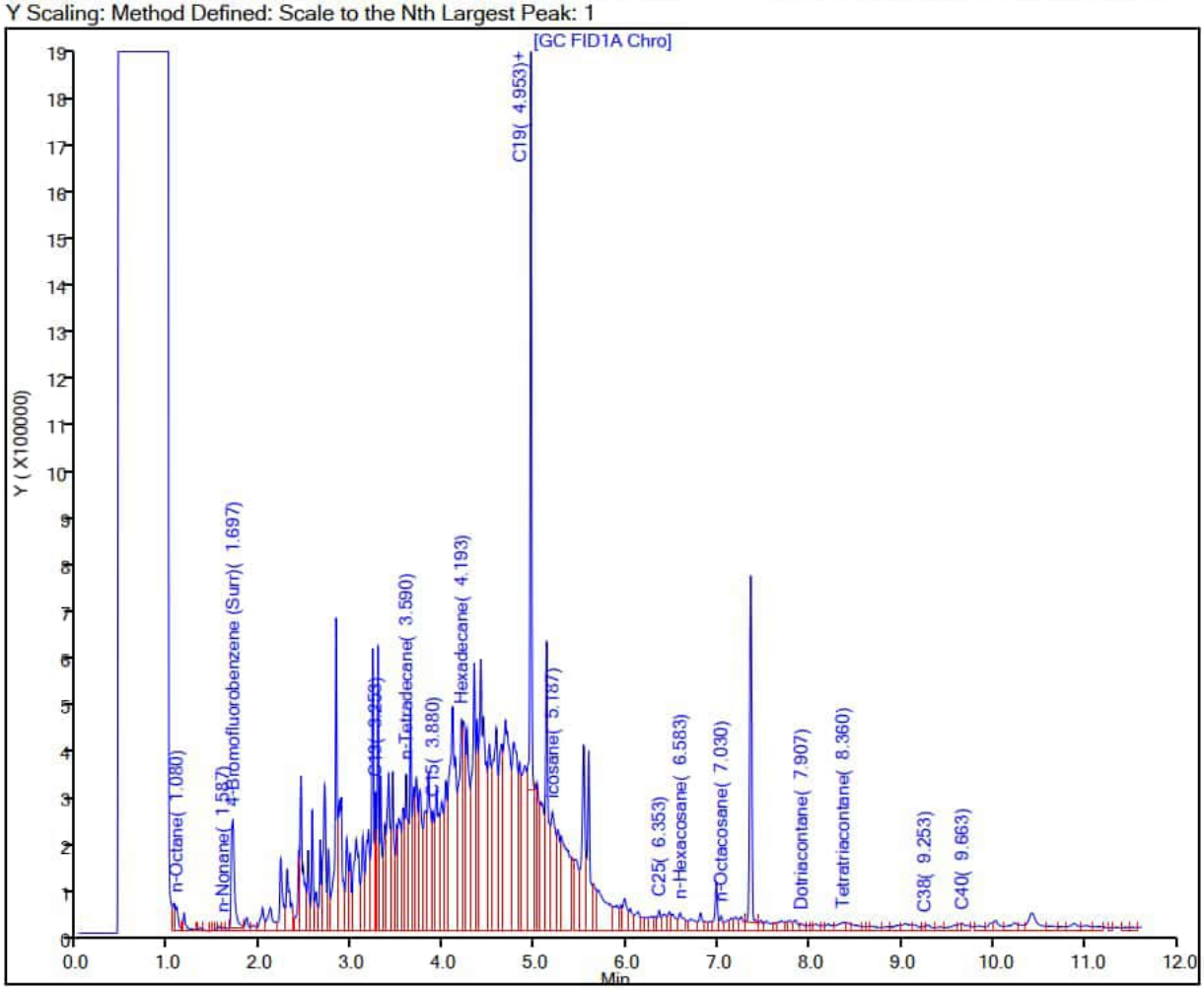
Results (ug/L): TPH-d (C10 to C24) 2400 TPH-o (C24 to C40) 260 J

Report Date: 03-Oct-2022 13:37:03 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A026.D				
Injection Date:	30-Sep-2022 23:15:41	Instrument ID:	TAC129		
Lims ID:	580-118344-C-1-A	Lab Sample ID:	580-118344-1		
Client ID:	RHMW02-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



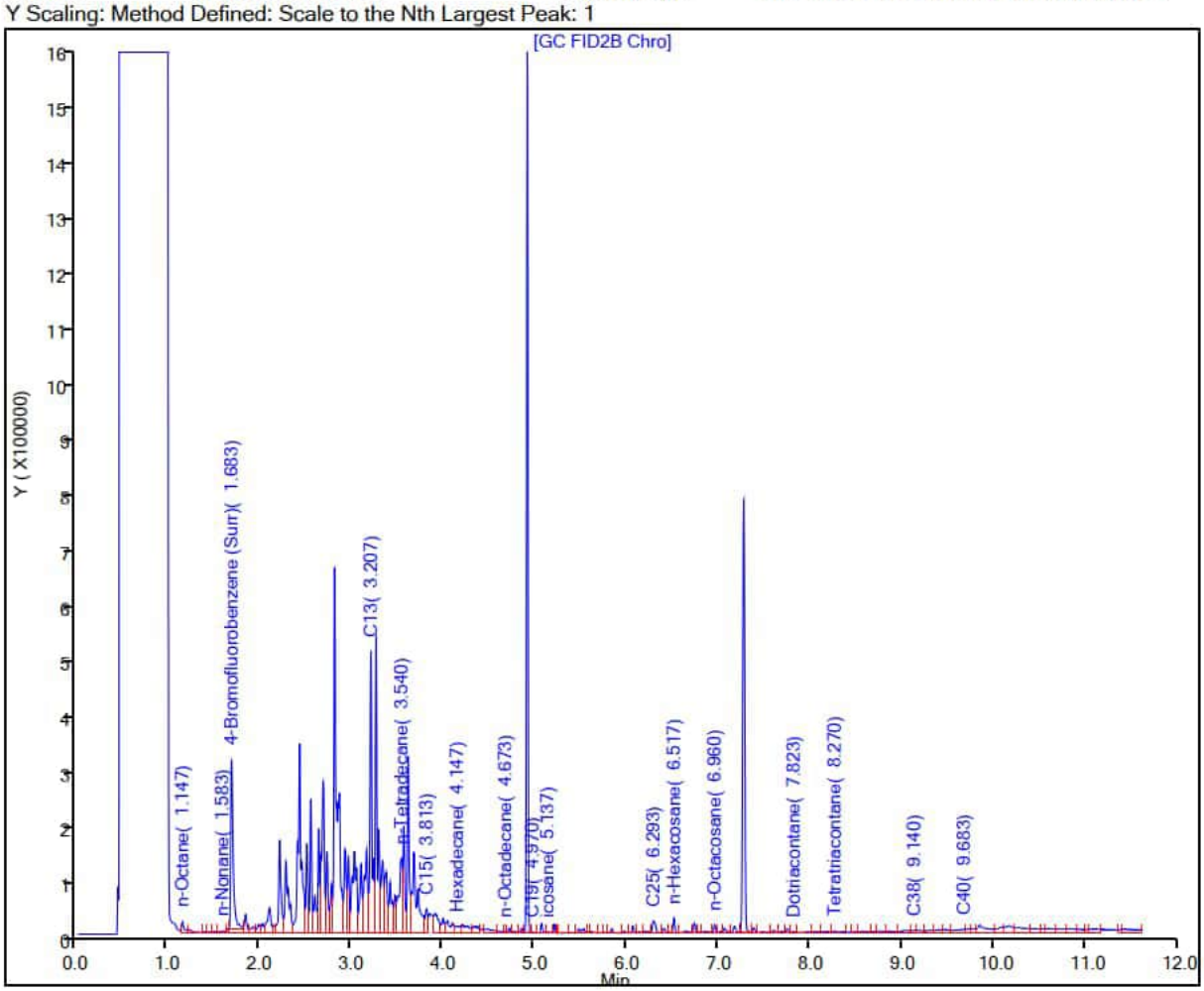
Results (ug/L): TPH-d SGC (C10 to C24) 580 TPH-o SGC (C24 to C40) <310 U

Report Date: 04-Oct-2022 16:34:23 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221003-85159.b\091522A007.D				
Injection Date:	03-Oct-2022 18:41:57	Instrument ID:	TAC129_R		
Lims ID:	580-118344-C-1-B	Lab Sample ID:	580-118344-1		
Client ID:	RHMW02-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: RHMW03 Sample ID: RHMW03-WGN01B-2208WK4 Sample Date: 8/23/2022
Lab: Eurofins Seattle

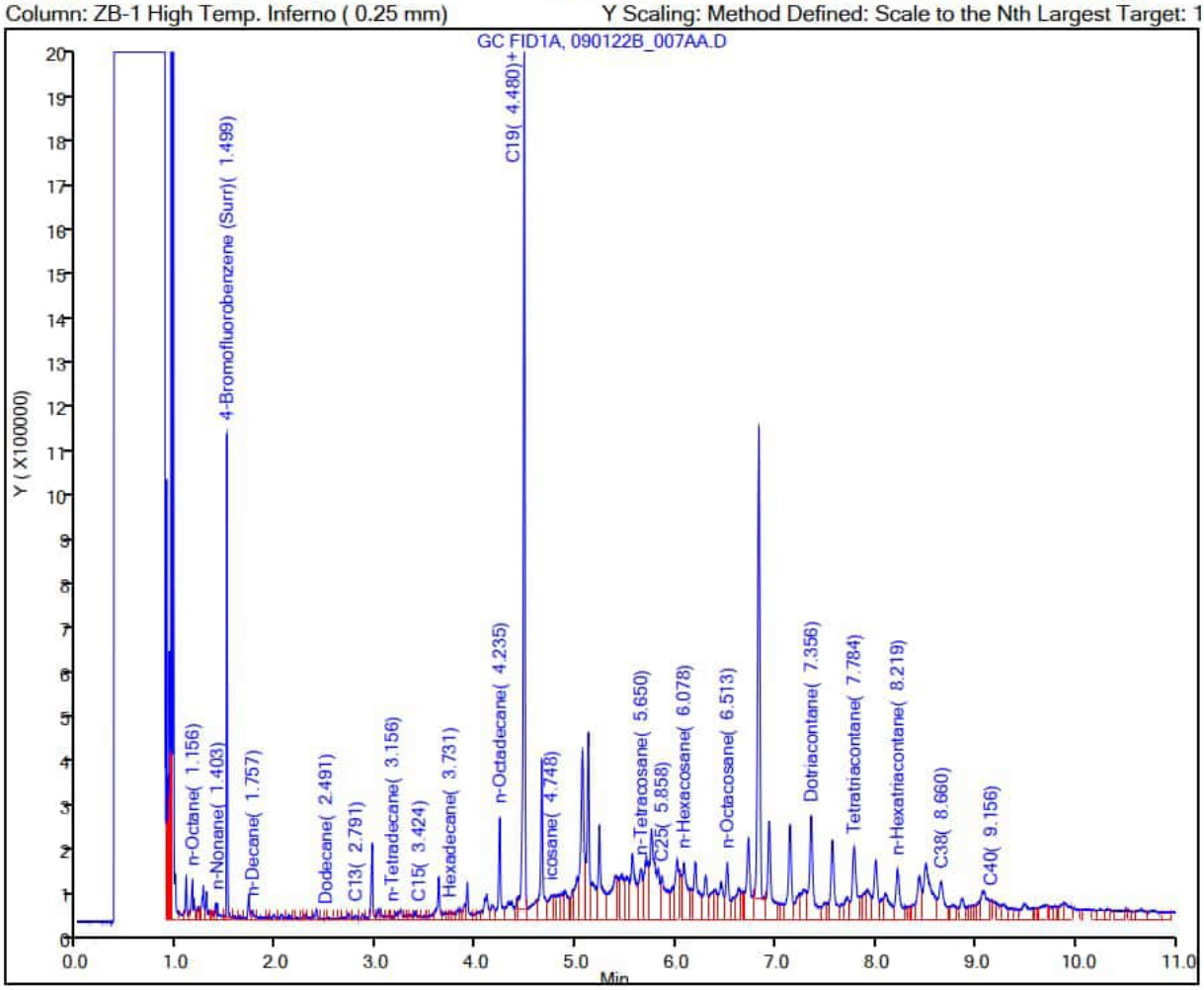
Results (ug/L): TPH-d (C10 to C24) 310 TPH-o (C24 to C40) 640

Report Date: 02-Sep-2022 22:48:41 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220901-84631.b\090122B_007AA.D				
Injection Date:	01-Sep-2022 23:43:30	Instrument ID:	TAC020		
Lims ID:	580-117247-F-7-A	Lab Sample ID:	580-117247-7		
Client ID:	RHMW03-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



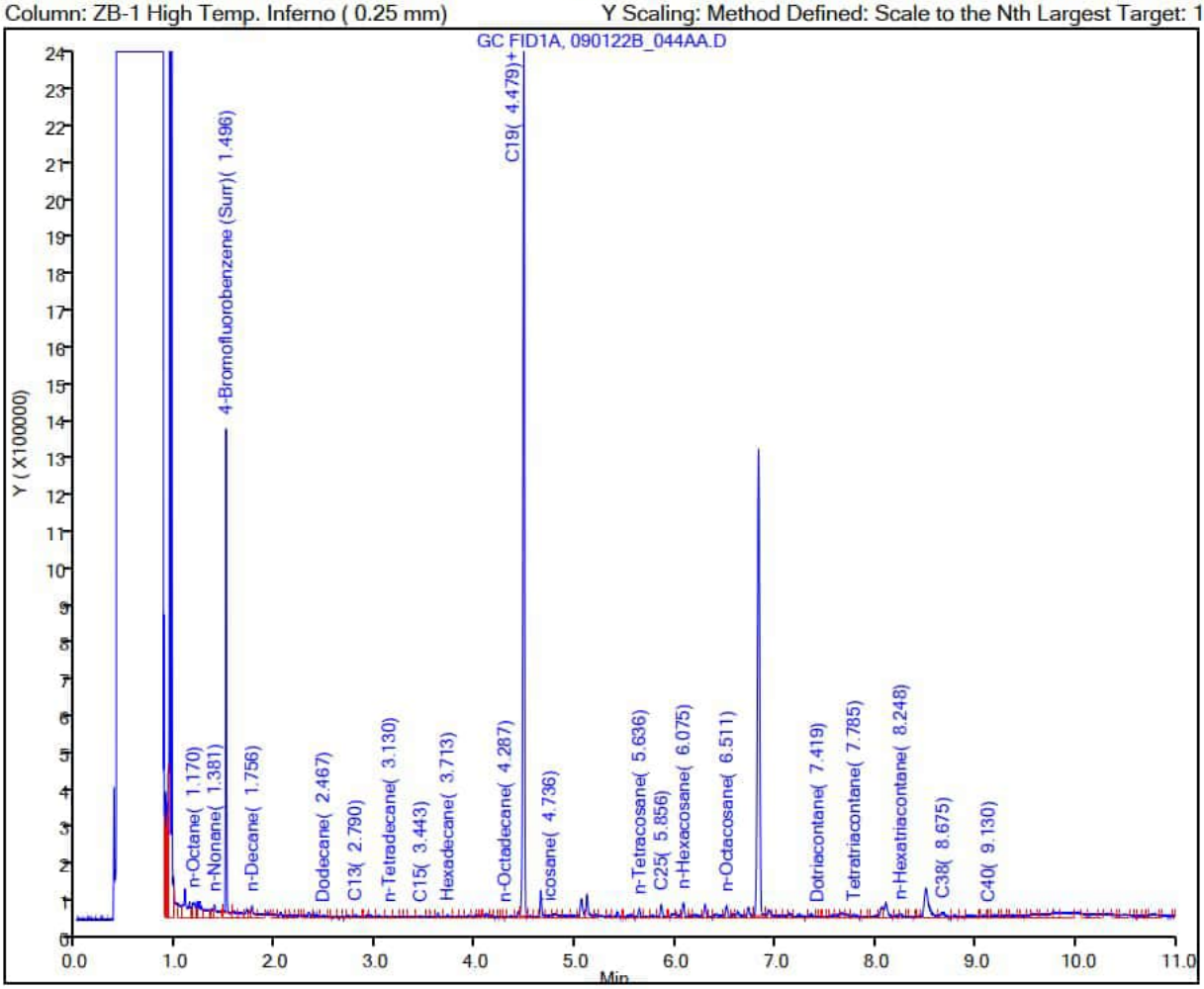
Results (ug/L): TPH-d SGC (C10 to C24) 77 J TPH-o SGC (C24 to C40) <310 U

Report Date: 02-Sep-2022 22:48:36 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220901-84631.b\090122B_044AA.D				
Injection Date:	02-Sep-2022 14:03:30	Instrument ID:	TAC020		
Lims ID:	580-117247-F-7-B	Lab Sample ID:	580-117247-7		
Client ID:	RHMW03-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	39	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



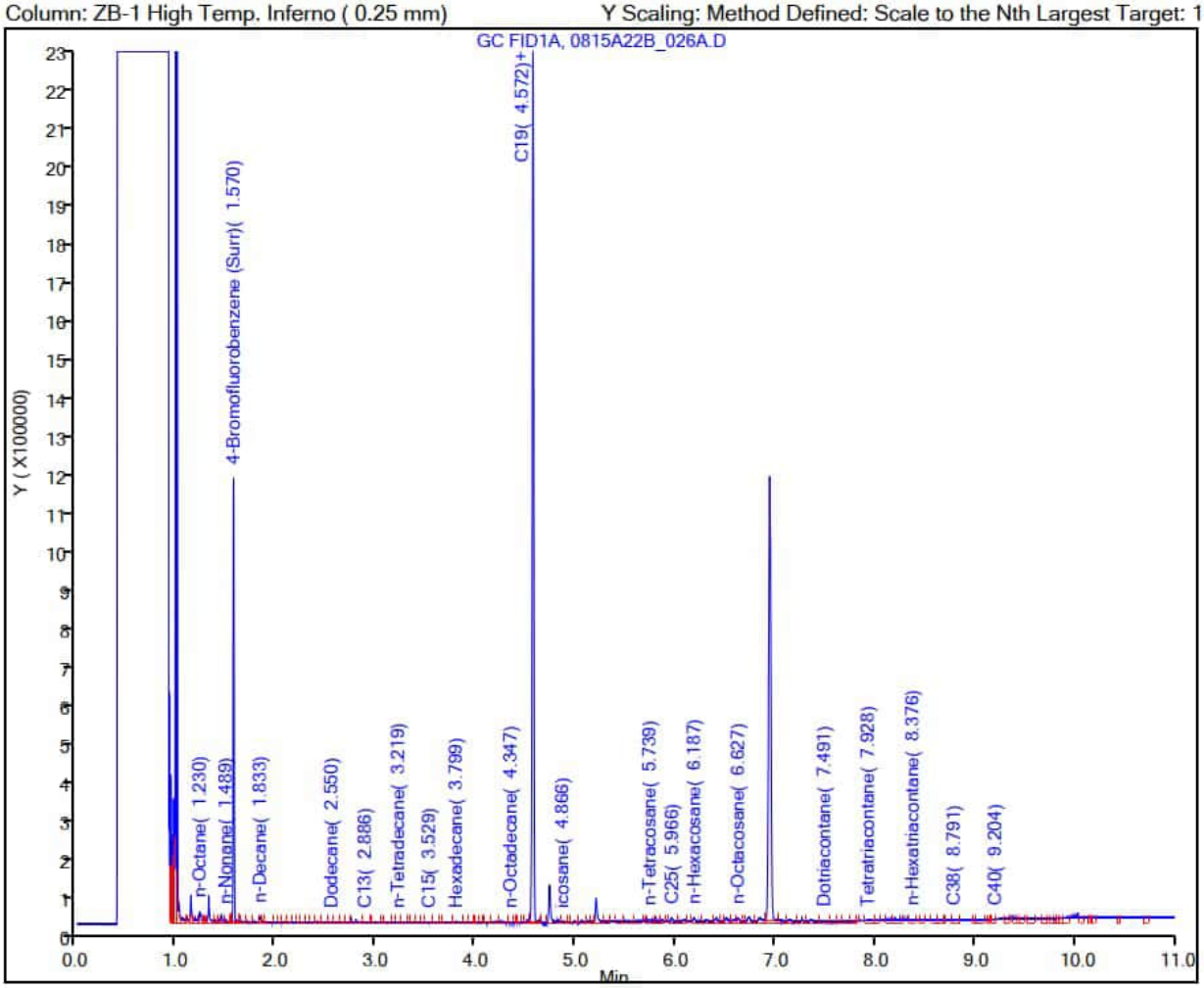
Method Blank Associated with Location: RHMW02, RHMW12A
Sample ID: RHMW02-WGN01B-2208WK2, RHMW12A-WGN01LF-2208WK2
Sample Date: 8/9/22
Lab: Eurofins Seattle

Report Date: 16-Aug-2022 07:56:53 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220815-84310.b\0815A22B_026A.D				
Injection Date:	16-Aug-2022 03:17:30	Instrument ID:	TAC020		
Lims ID:	MB 580-400546/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	26	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



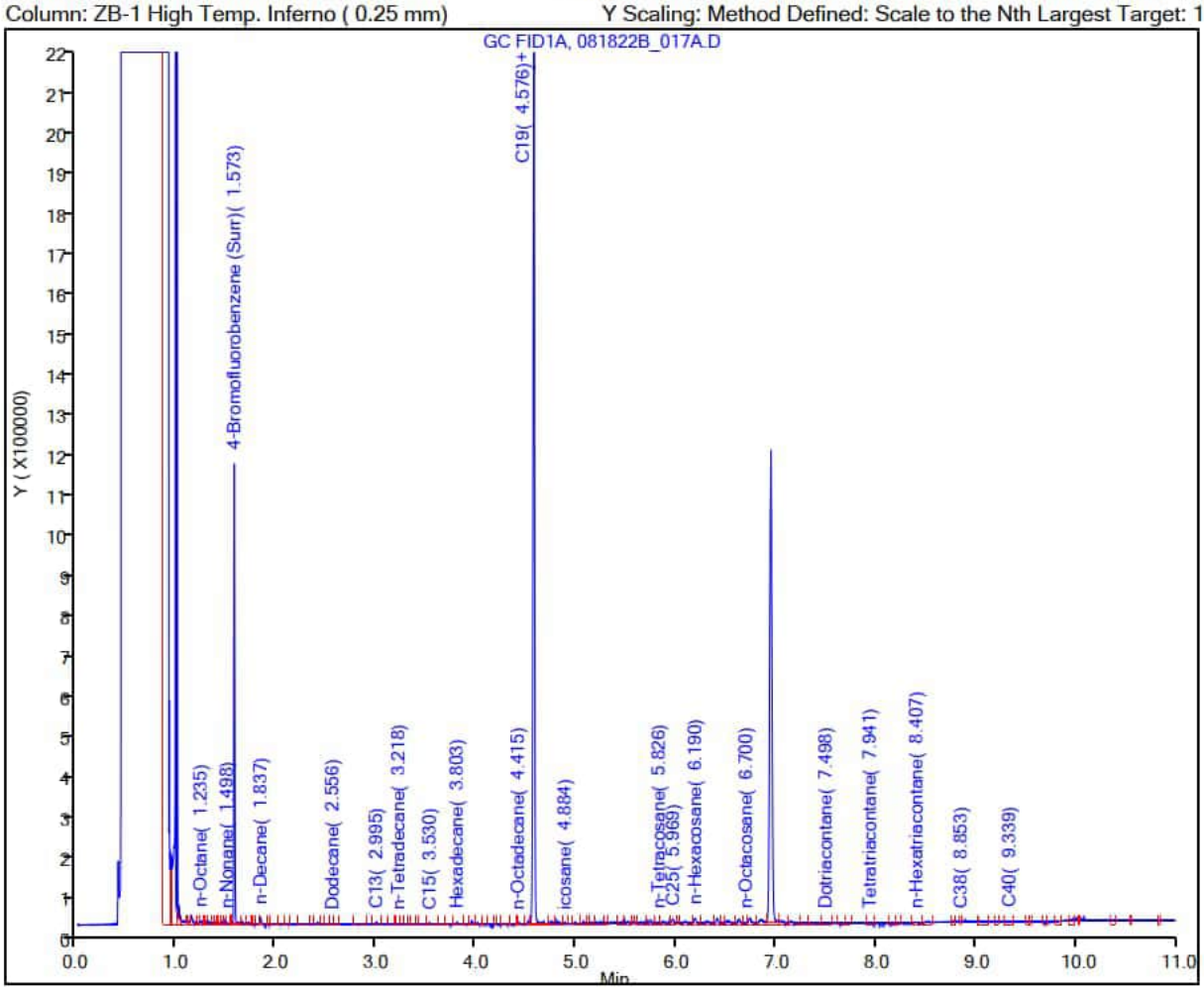
Method Blank Associated with Location: RHMW02
Sample ID: RHMW02-WGN01B-2208WK2
Sample Date: 8/9/22
Lab: Eurofins Seattle

Report Date: 18-Aug-2022 20:54:34 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220818-84373.b\081822B_017A.D				
Injection Date:	18-Aug-2022 19:17:30	Instrument ID:	TAC020		
Lims ID:	MB 580-400546/1-B				
Client ID:					
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



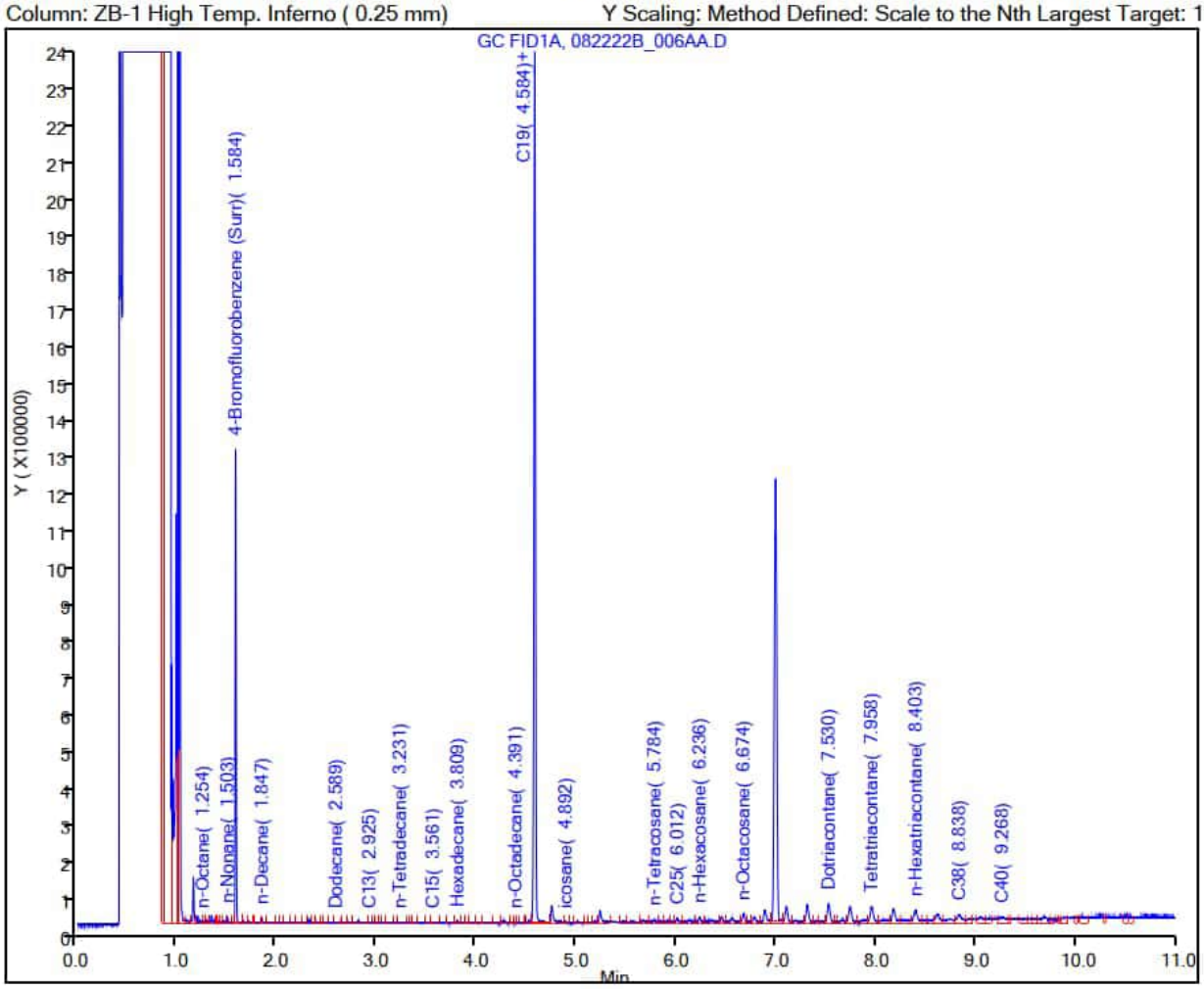
Method Blank Associated with Location: RHMW05, RHMW16
Sample ID: RHMW05-WGN01B-2208WK2, RHMW16-WGN01LF-2208WK2
Sample Date: 8/9/22
Lab: Eurofins Seattle

Report Date: 22-Aug-2022 20:40:42 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220822-84439.b\082222B_006AA.D				
Injection Date:	22-Aug-2022 17:46:30	Instrument ID:	TAC020		
Lims ID:	MB 580-401359/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



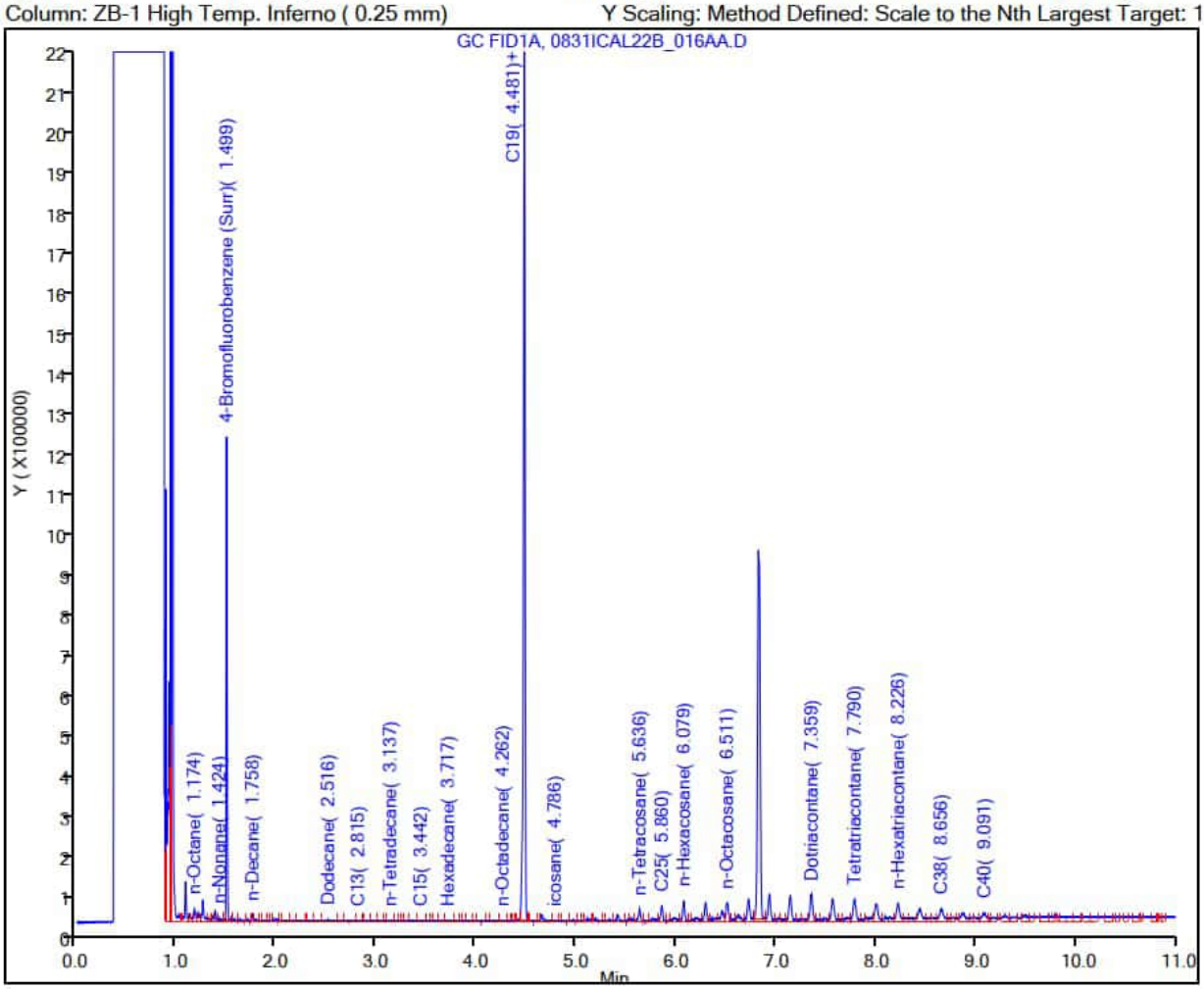
Method Blank Associated with Location: RHMW02, RHMW12A
Sample ID: RHMW02-WGN01B-2208WK2, RHMW12A-WGN01LF-2208WK2
Sample Date: 8/9/22
Lab: Eurofins Seattle

Report Date: 01-Sep-2022 14:03:49 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220831-84605.b\0831ICAL22B_016AA.D				
Injection Date:	01-Sep-2022 04:25:30	Instrument ID:	TAC020		
Lims ID:	MB 580-402500/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



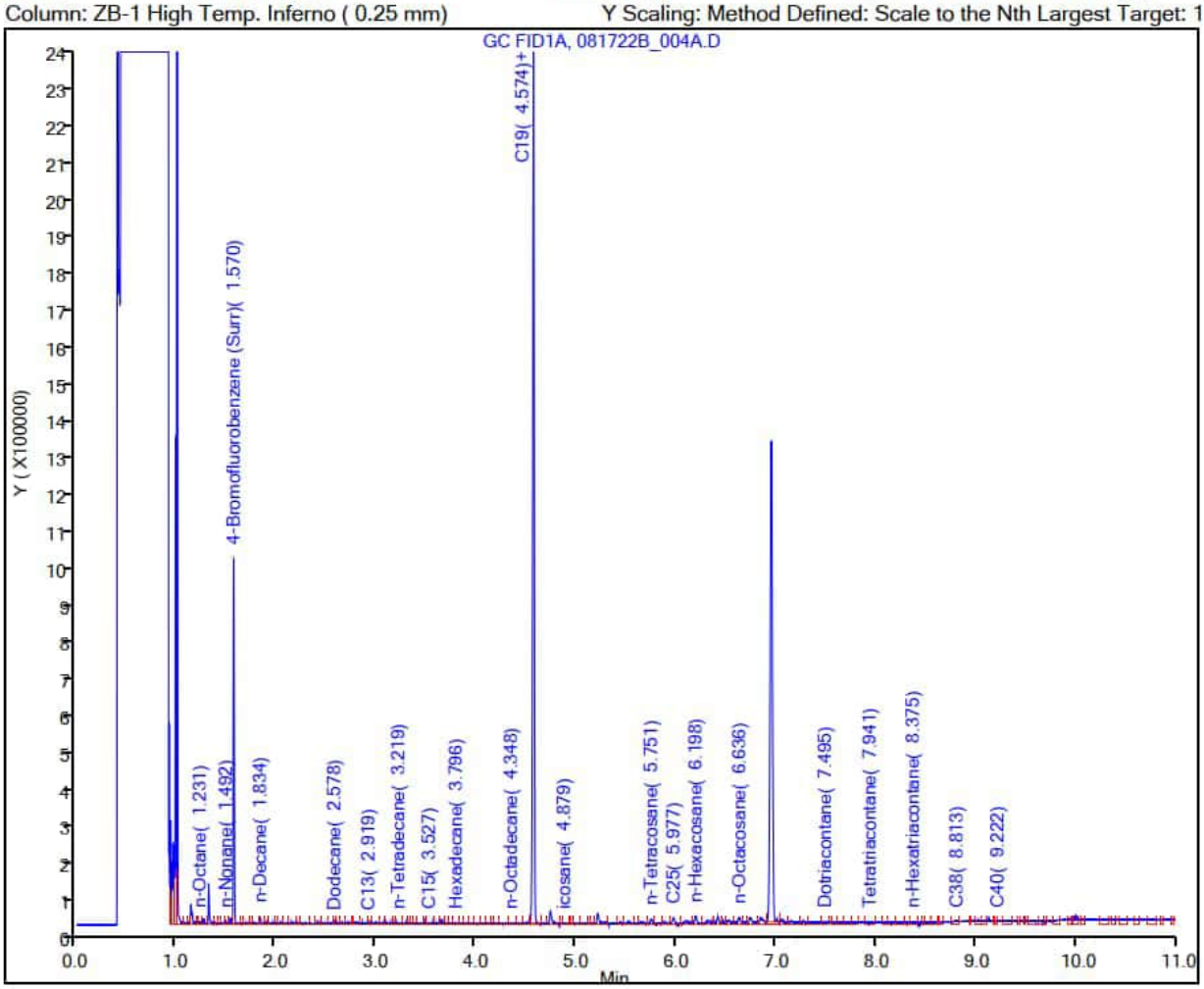
Method Blank Associated with Location: OWDFMW01, RHMW04, RHMW06, RHMW08, RHMW17
Sample ID: OWDFMW01-WGN01LF-2208WK2, RHMW17-WGN01B-2208WK2, RHMW04-WGN01B-2208WK2, RHMW04-WGFD01B-2208WK2, RHMW06-WGN01B-2208WK2, RHMW08-WGN01B-2208WK2
Sample Date: 8/10/22
Lab: Eurofins Seattle

Report Date: 18-Aug-2022 11:45:02 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220817-84355.b\081722B_004A.D				
Injection Date:	17-Aug-2022 21:59:30	Instrument ID:	TAC020		
Lims ID:	MB 580-400845/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



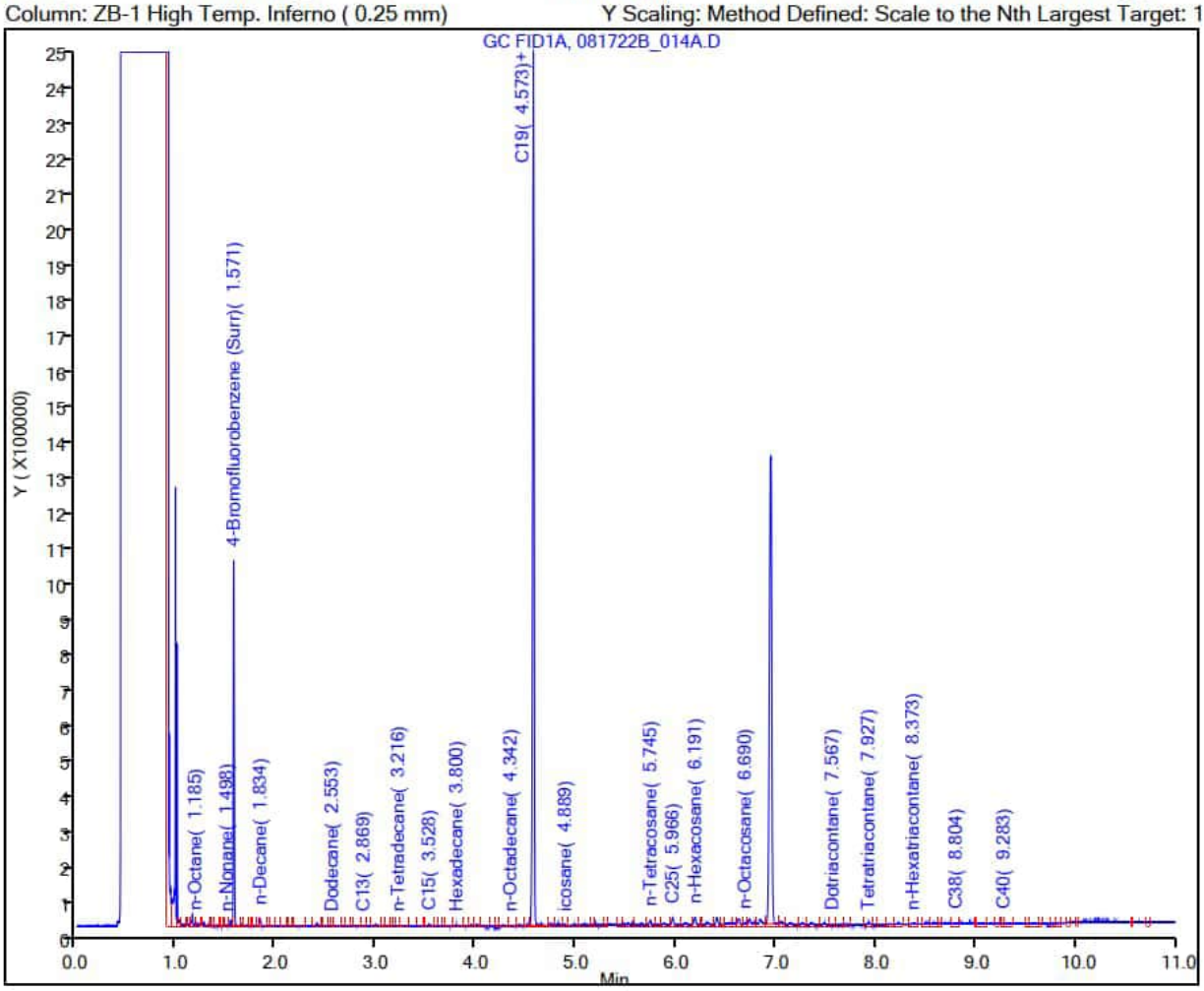
Method Blank Associated with Location: RHMW17
Sample ID: RHMW17-WGN01B-2208WK2
Sample Date: 8/10/22
Lab: Eurofins Seattle

Report Date: 12-Sep-2022 15:29:54 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220817-84355.b\081722B_014A.D				
Injection Date:	18-Aug-2022 01:22:30	Instrument ID:	TAC020		
Lims ID:	MB 580-400845/1-B				
Client ID:					
Operator ID:	DH	ALS Bottle#:	14	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



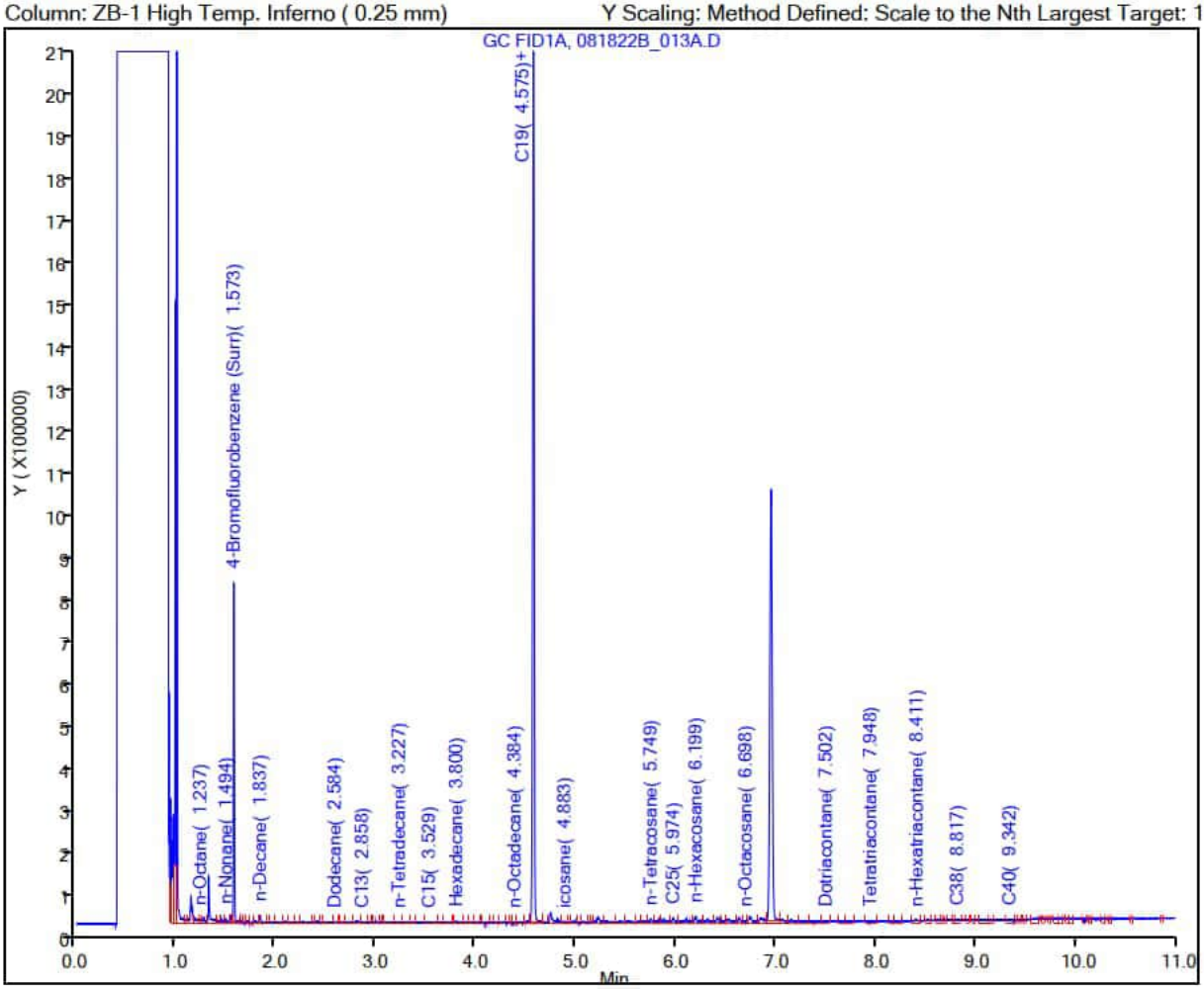
Method Blank Associated with Location: ADIT3-SUMP, RHMW2254-01, OWDFMW07A, OWDFMW08A
Sample ID: RHMW2254-01-WGN01B-2208WK2, ADIT3-SUMP-WGN01B-2208WK2, RHMW2254-01-WGN01LF-2208WK2, OWDFMW07A-WGN01LF-2208WK2, OWDFMW08A-WGFD01LF-2208WK2, OWDFMW08A-WGN01LF-2208WK2
Sample Date: 8/11/22
Lab: Eurofins Seattle

Report Date: 18-Aug-2022 20:54:01 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220818-84373.b\081822B_013A.D				
Injection Date:	18-Aug-2022 17:56:30	Instrument ID:	TAC020		
Lims ID:	MB 580-400992/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



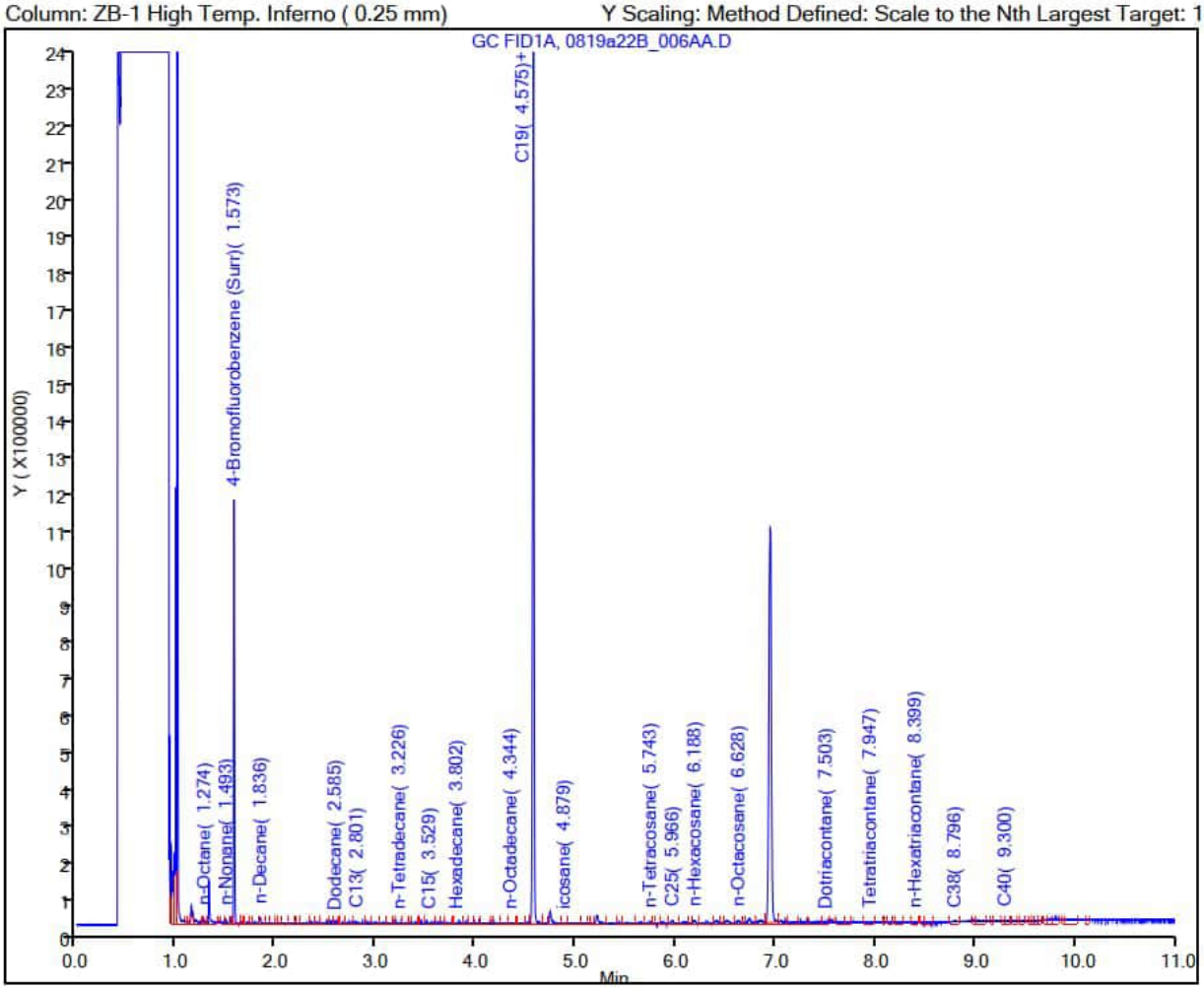
Method Blank Associated with Location: RHMW11-05, RHMW13-05, RHMW14-03, RHMW15-05
Sample ID: RHMW15-05-WGN01G-2208WK2, RHMW13-05-WGN01G-2208WK2, RHMW11-05-WGN01G-2208WK2, RHMW14-03-WGN01G-2208WK2
Sample Date: 8/12/22 – 8/13/22
Lab: Eurofins Seattle

Report Date: 22-Aug-2022 22:59:27 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220819-84403.b\0819a22B_006AA.D				
Injection Date:	19-Aug-2022 23:26:30	Instrument ID:	TAC020		
Lims ID:	MB 580-401137/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



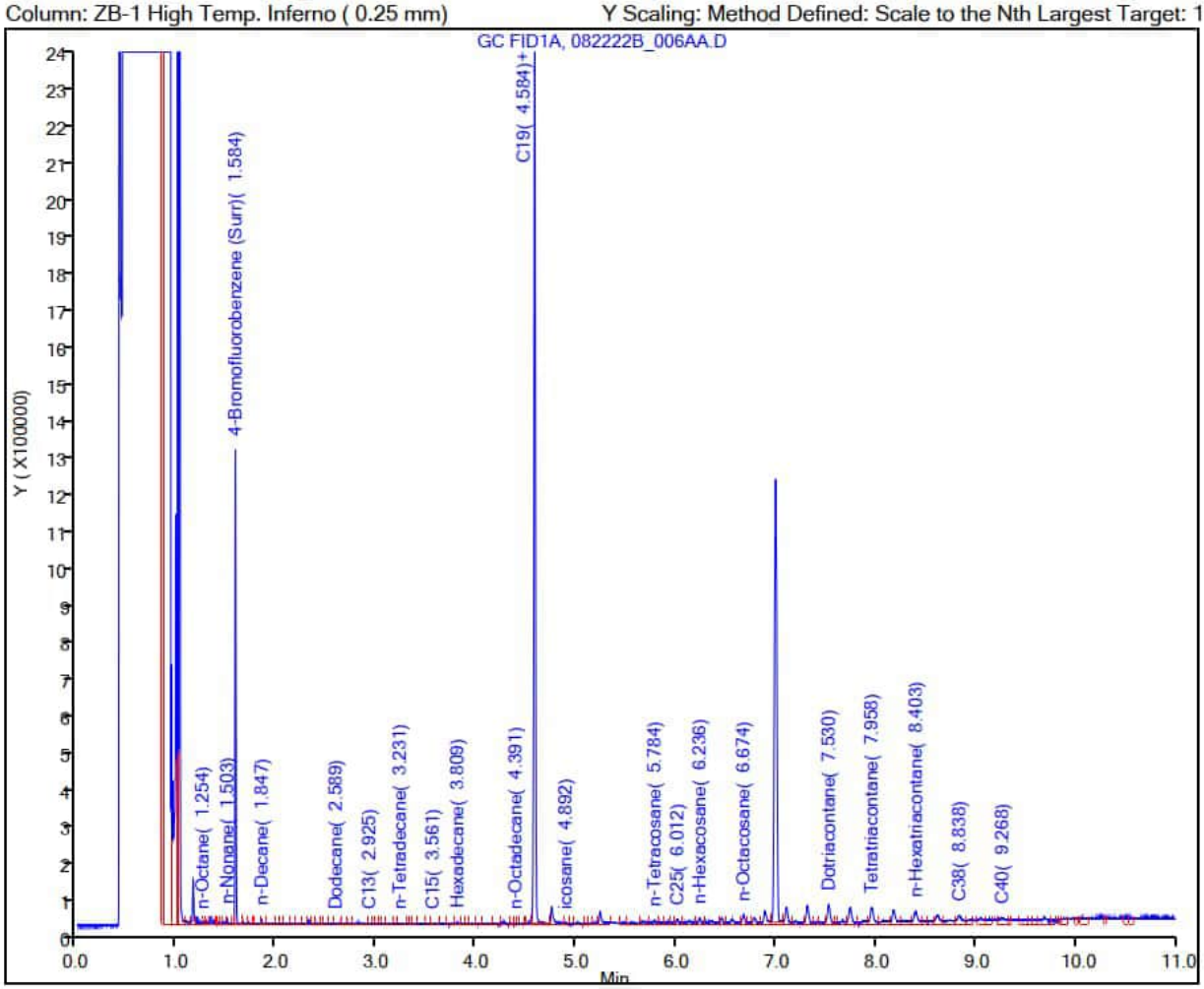
Method Blank Associated with Location: OWDFMW04A, OWDFMW05A, RHMW09, RHMW19, RHMW15-05
Sample ID RHMW19-WGN01B-2208WK3, RHMW09-WGN01B-2208WK3, OWDFMW05A-WGN01LF-2208WK3, OWDFMW04A-WGN01LF-2208WK3, OWDFMW04A-WGFD01LF-2208WK3, RHMW15-05-WGN01G-2208WK3
Sample Date: 8/15/22
Lab: Eurofins Seattle

Report Date: 22-Aug-2022 20:40:42 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220822-84439.b\082222B_006AA.D				
Injection Date:	22-Aug-2022 17:46:30	Instrument ID:	TAC020		
Lims ID:	MB 580-401359/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



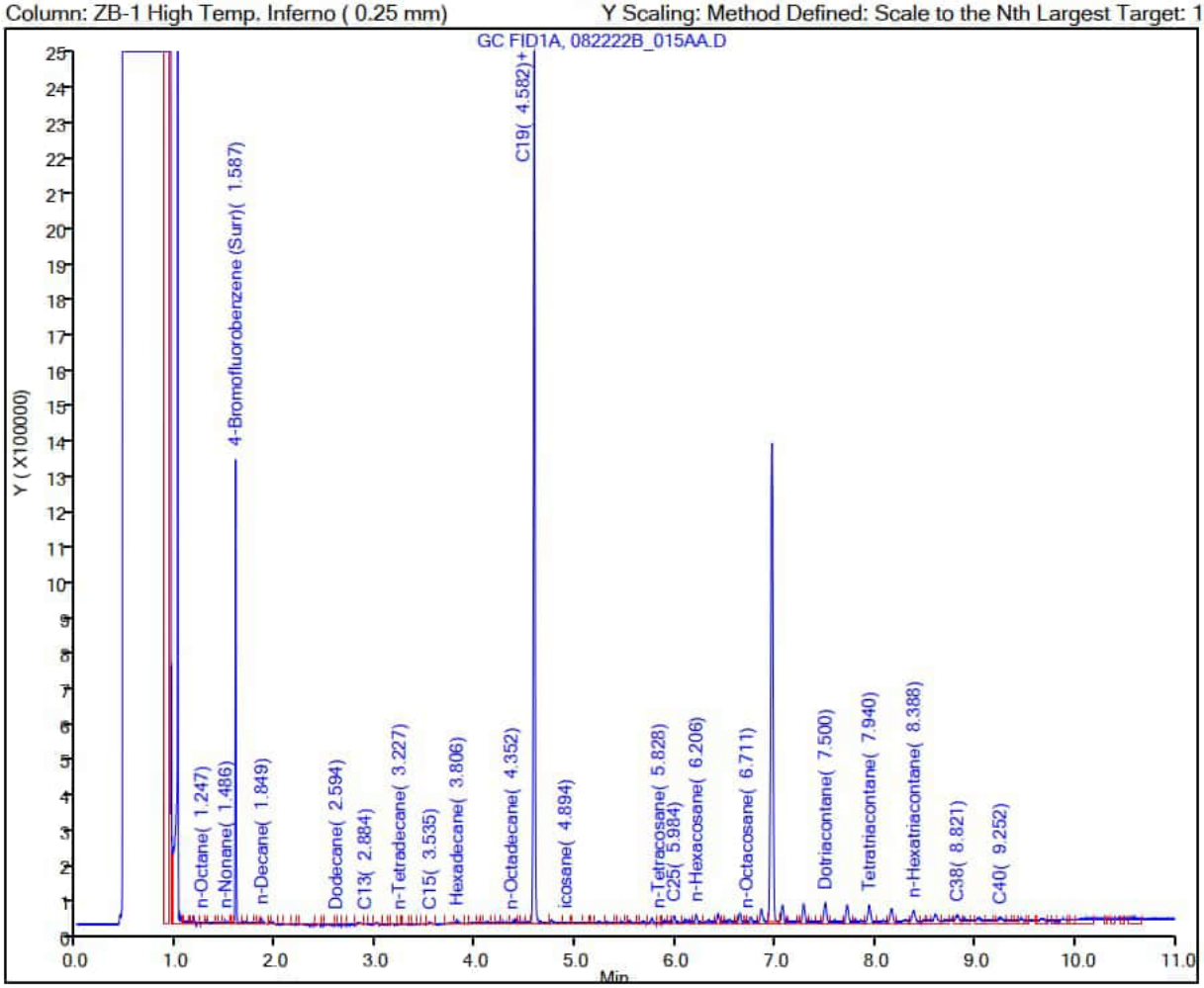
Method Blank Associated with Location: OWDFMW04A, OWDFMW05A, RHMW09, RHMW19
Sample ID RHMW19-WGN01B-2208WK3, RHMW09-WGN01B-2208WK3, OWDFMW05A-WGN01LF-2208WK3, OWDFMW04A-WGN01LF-2208WK3, OWDFMW04A-WGFD01LF-2208WK3
Sample Date: 8/15/22
Lab: Eurofins Seattle

Report Date: 22-Aug-2022 23:09:27 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220822-84439.b\082222B_015AA.D				
Injection Date:	22-Aug-2022 20:48:30	Instrument ID:	TAC020		
Lims ID:	MB 580-401359/1-B				
Client ID:					
Operator ID:	DH	ALS Bottle#:	15	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



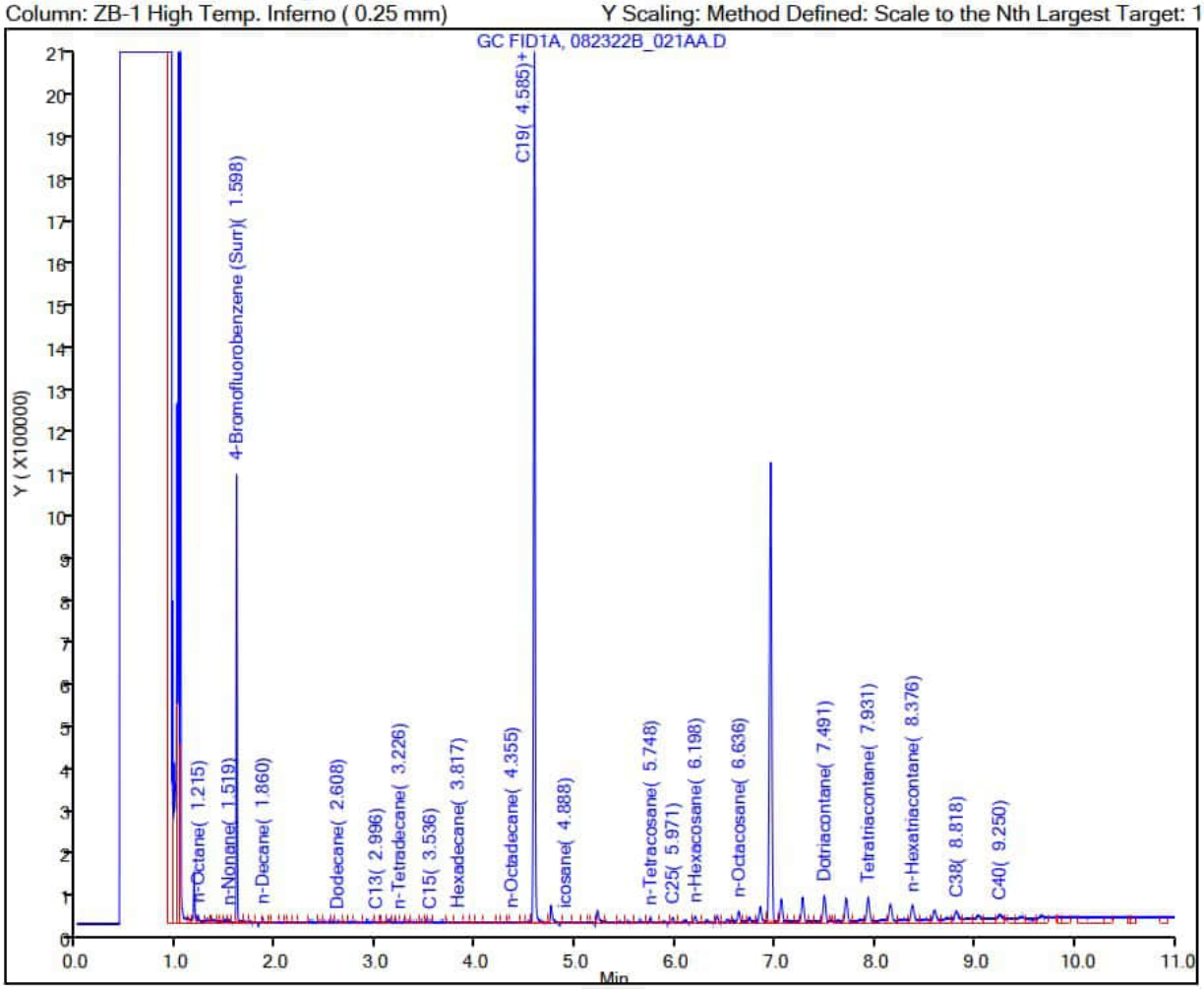
Method Blank Associated with Location: RHMW02, RHMW03, RHMW12A, RHMW14-03, RHMW16
Sample ID: RHMW14-03-WGN01G-2208WK3, RHMW16-WGN01LF-2208WK3, RHMW12A-WGN01LF-2208WK3, RHMW03-WGN01B-2208WK3, RHMW02-WGN01B-2208WK3
Sample Date: 8/16/22

Report Date: 24-Aug-2022 09:25:02 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_021AA.D				
Injection Date:	24-Aug-2022 00:45:30	Instrument ID:	TAC020		
Lims ID:	MB 580-401512/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	21	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



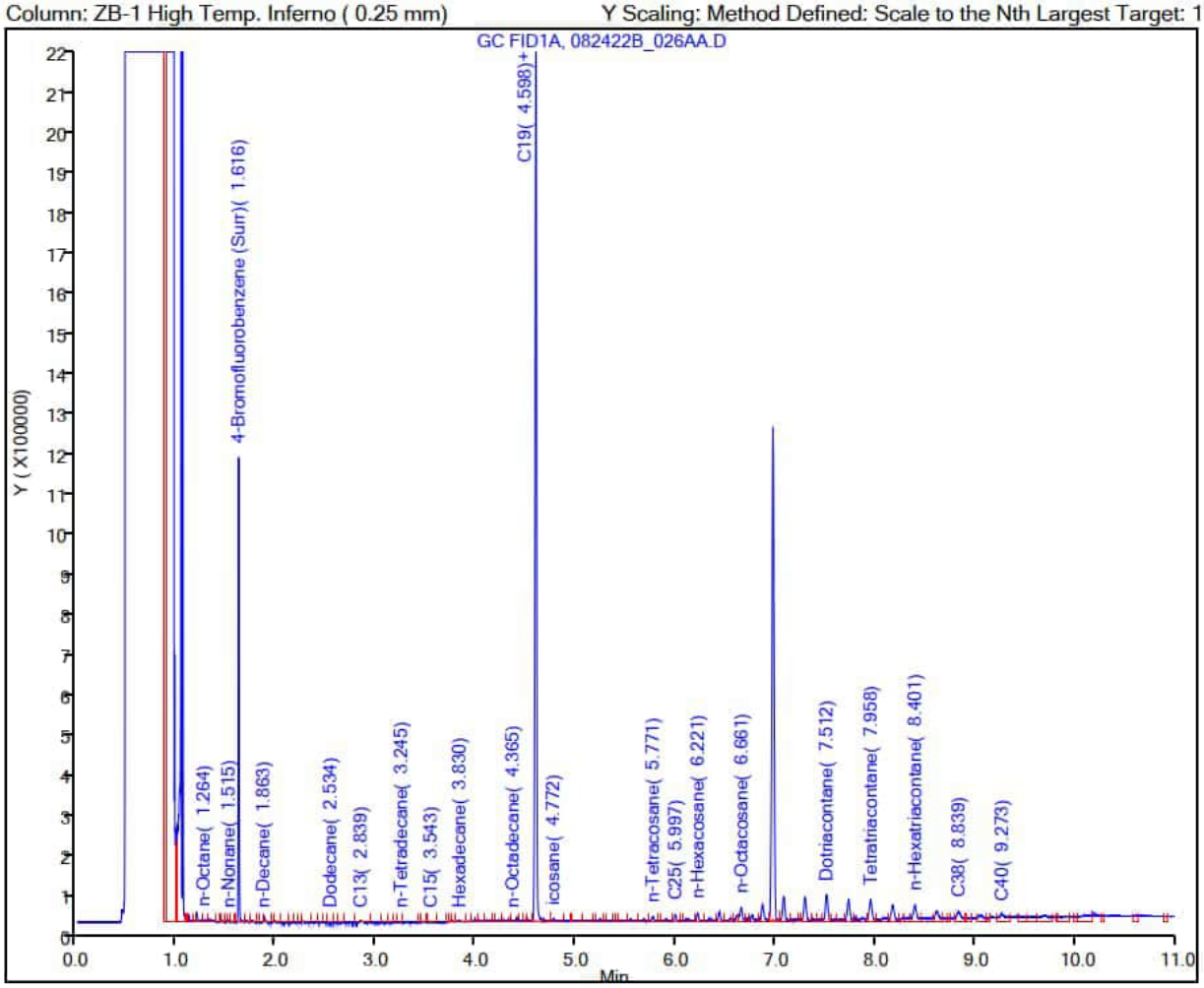
Method Blank Associated with Location: RHMW02, RHMW03, RHMW12A, RHMW14-03, RHMW16
Sample ID: RHMW14-03-WGN01G-2208WK3, RHMW16-WGN01LF-2208WK3, RHMW12A-WGN01LF-2208WK3, RHMW03-WGN01B-2208WK3, RHMW02-WGN01B-2208WK3
Sample Date: 8/16/22

Report Date: 25-Aug-2022 10:40:59 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_026AA.D				
Injection Date:	25-Aug-2022 05:05:30	Instrument ID:	TAC020		
Lims ID:	MB 580-401512/1-B				
Client ID:					
Operator ID:	DH	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



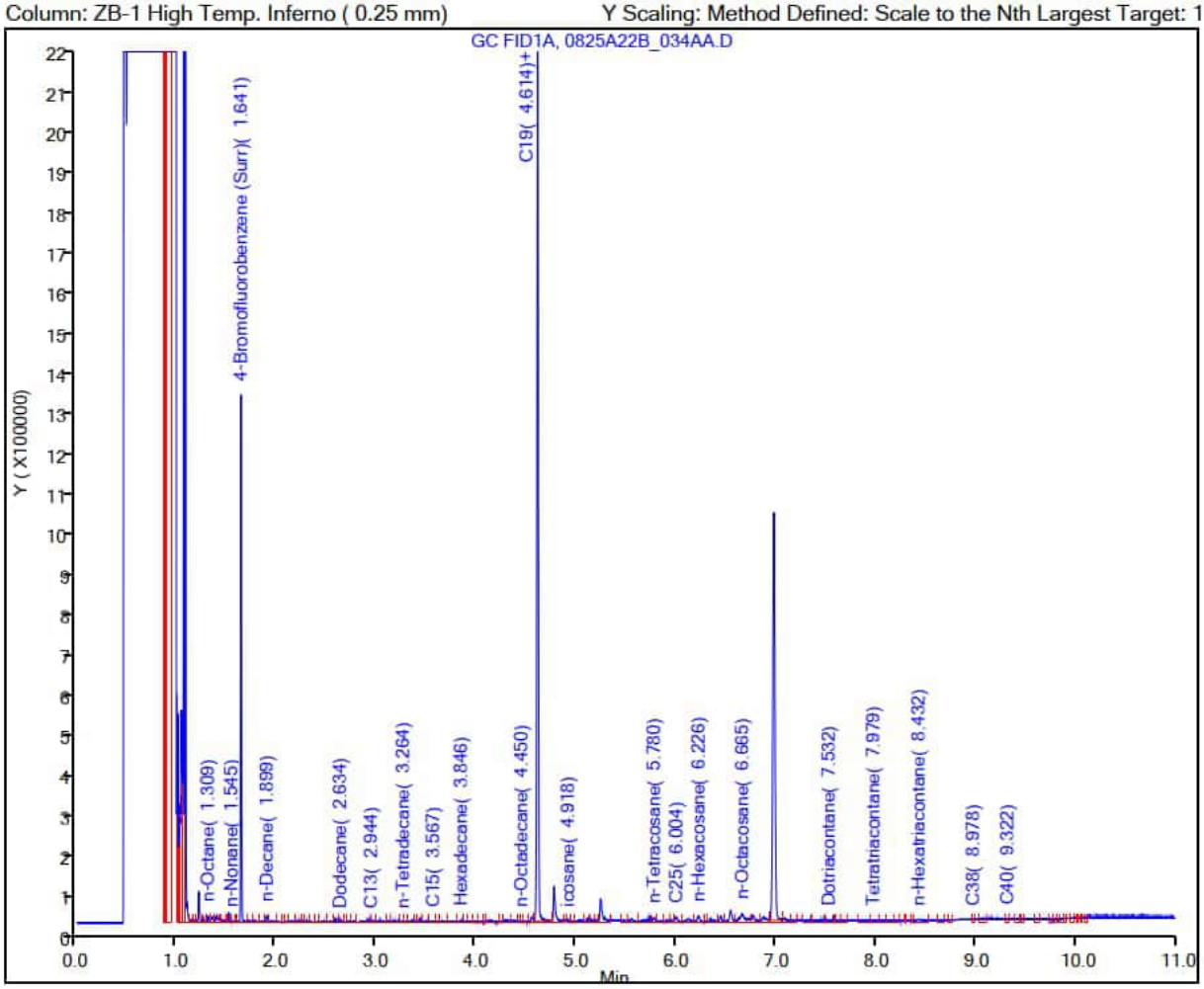
Method Blank Associated with Location: OWDFMW07A, RHMW2254-01
Sample ID: OWDFMW07A-WGN01LF-2208WK3, RHMW2254-01-WGN01B-2208WK3
Sample Date: 8/18/22
Lab: Eurofins Seattle

Report Date: 28-Aug-2022 22:42:24 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84521.b\0825A22B_034AA.D				
Injection Date:	26-Aug-2022 11:04:30	Instrument ID:	TAC020		
Lims ID:	MB 580-401818/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	33	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



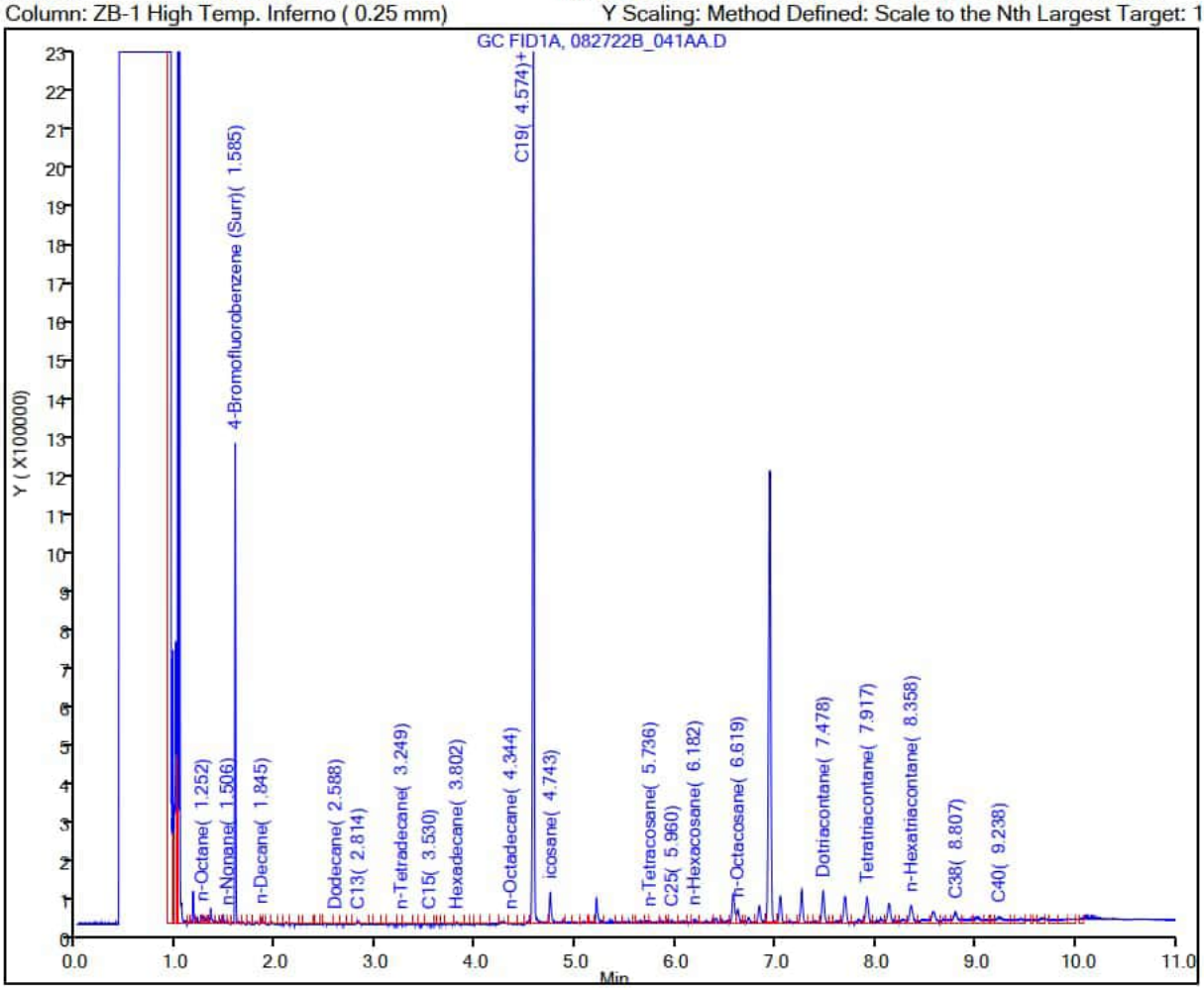
Method Blank Associated with Location: OWDFMW08A
Sample ID OWDFMW08A-WGN01LF-2208WK3, OWDFMW08A-WGFD01LF-2208WK3
Sample Date: 8/19/22
Lab: Eurofins Seattle

Report Date: 29-Aug-2022 14:35:23 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84528.b\082722B_041AA.D				
Injection Date:	27-Aug-2022 12:08:30	Instrument ID:	TAC020		
Lims ID:	MB 580-401969/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	41	Worklist Smp#:	90
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



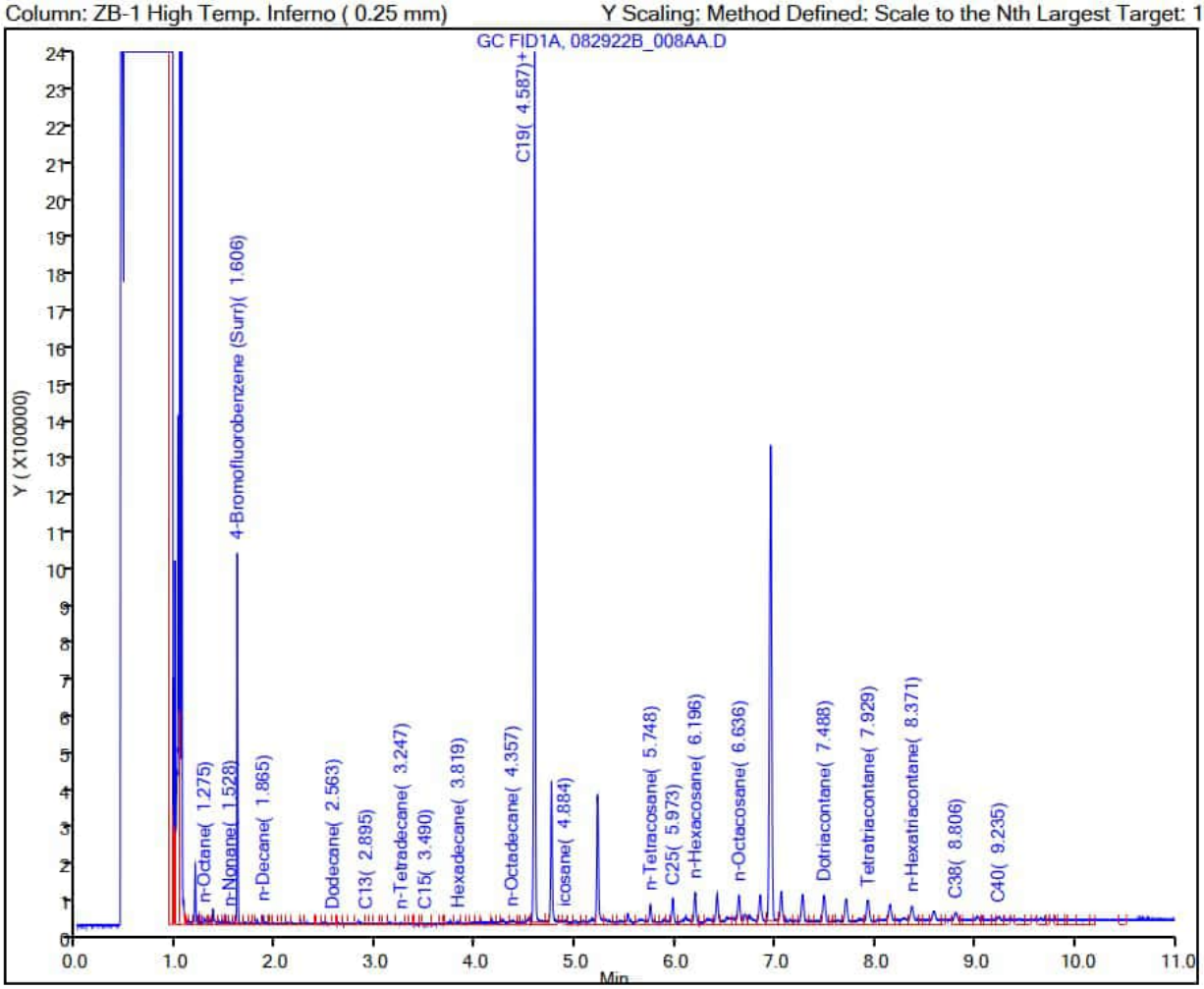
Method Blank Associated with Location: OWDFMW04A, OWDFMW05A, RHMW09, RHMW11-05, RHMW14-03, RHMW19
Sample ID: RHMW11-05-WGN01G-2208WK4, OWDFMW05A-WGN01LF-2208WK4, OWDFMW04A-WGN01LF-2208WK4, OWDFMW04A-WGFD01LF-2208WK4, RHMW09-WGN01B-2208WK4, RHMW14-03-WGN01G-2208WK4, RHMW19-WGN01B-2208WK4
Sample Date: 8/22/22
Lab: Eurofins Seattle

Report Date: 30-Aug-2022 12:43:13 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220829-84555.b\082922B_008AA.D				
Injection Date:	29-Aug-2022 21:49:30	Instrument ID:	TAC020		
Lims ID:	MB 580-402165/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



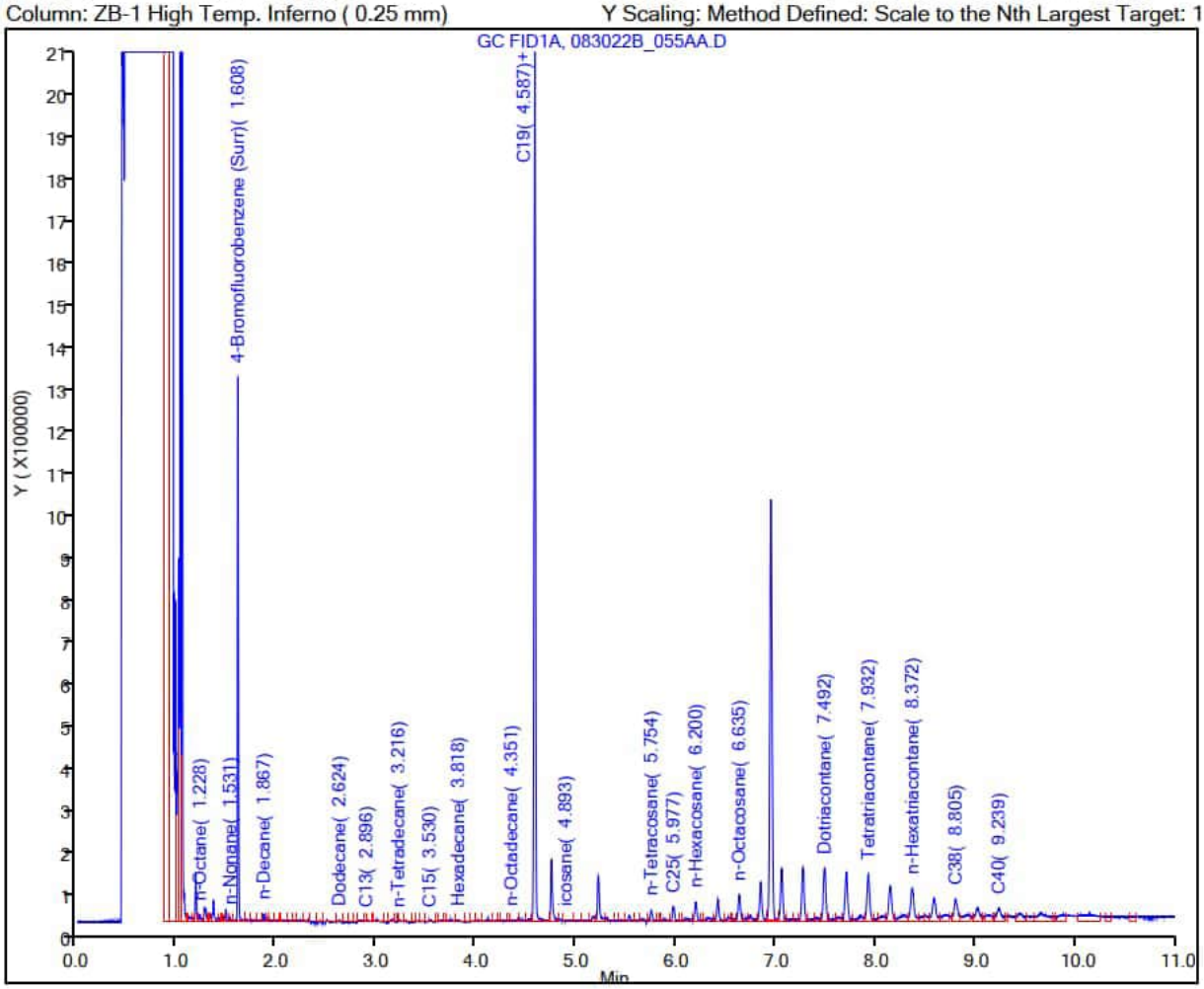
Method Blank Associated with Location: OWDFMW07A, RHMW01R, RHMW03, RHMW05, RHMW15-05
Sample ID: RHMW01R-WGN01B-2208WK4, RHMW05-WGN01B-2208WK4, RHMW03-WGN01B-2208WK4, OWDFMW07A-WGN01LF-2208WK4, RHMW15-05-WGN01G-2208WK4
Sample Date: 8/23/22
Lab: Eurofins Seattle

Report Date: 31-Aug-2022 14:58:00 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220830-84577.b\083022B_055AA.D				
Injection Date:	31-Aug-2022 14:07:30	Instrument ID:	TAC020		
Lims ID:	MB 580-402293/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	54	Worklist Smp#:	113
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



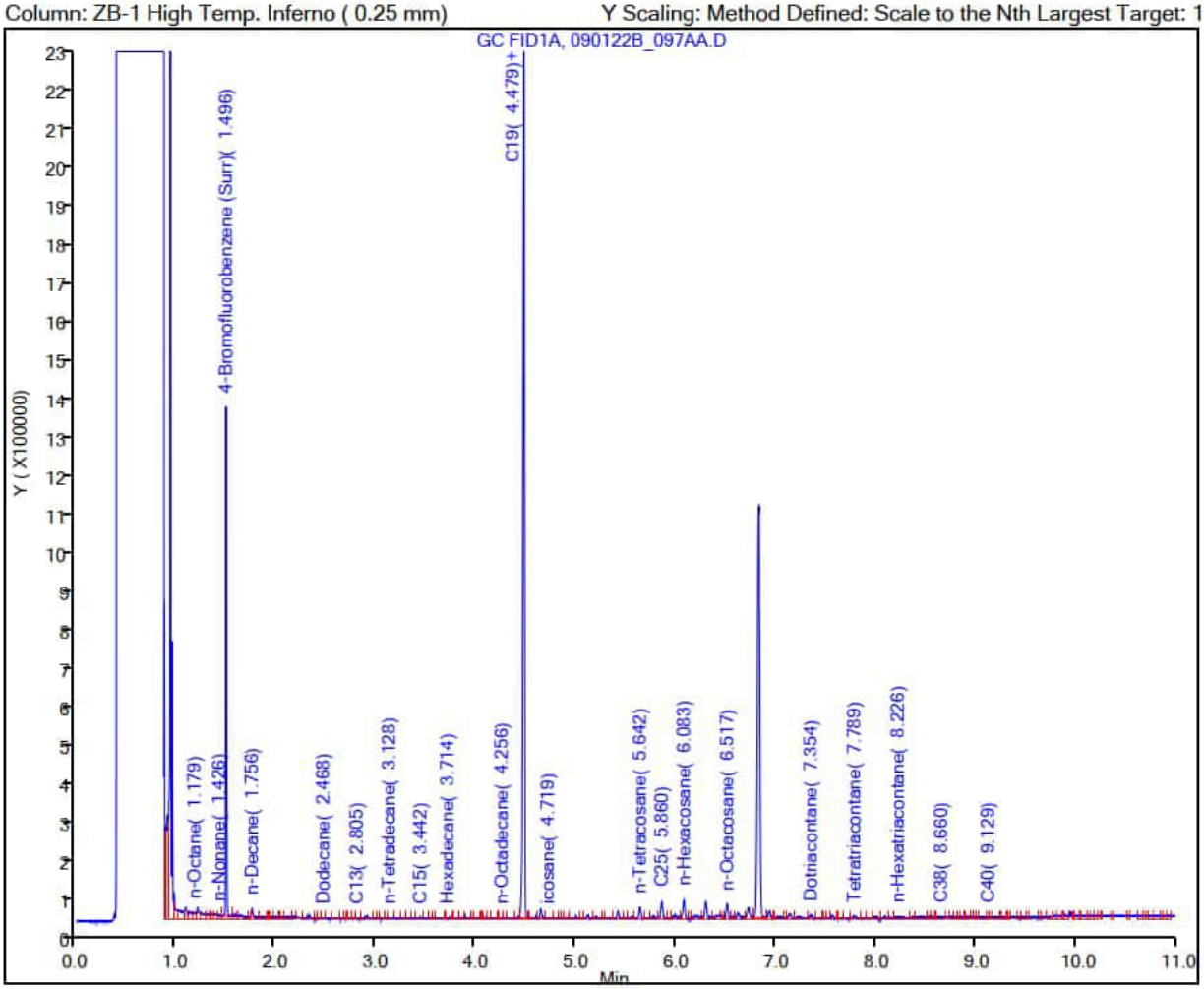
Method Blank Associated with Location: OWDFMW07A, RHMW01R, RHMW03, RHMW05, RHMW15-05
Sample ID: RHMW01R-WGN01B-2208WK4, RHMW05-WGN01B-2208WK4, RHMW03-WGN01B-2208WK4, OWDFMW07A-WGN01LF-2208WK4, RHMW15-05-WGN01G-2208WK4
Sample Date: 8/23/22
Lab: Eurofins Seattle

Report Date: 02-Sep-2022 22:48:50 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220901-84631.b\090122B_097AA.D				
Injection Date:	02-Sep-2022 17:25:30	Instrument ID:	TAC020		
Lims ID:	MB 580-402293/1-B				
Client ID:					
Operator ID:	DH	ALS Bottle#:	97	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



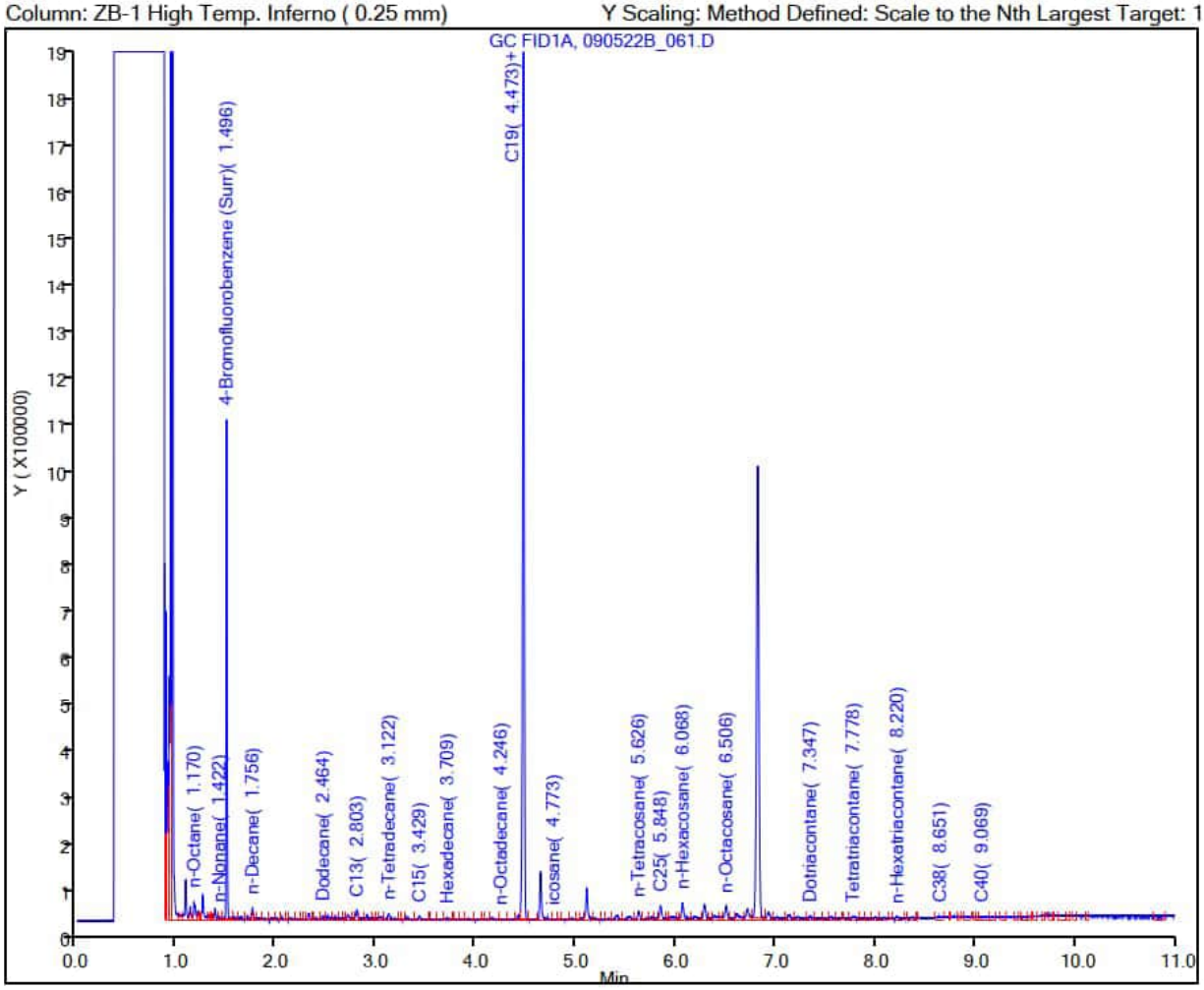
Method Blank Associated with Location: OWDFMW04A, OWDFMW05A, RHMW09, RHMW19
Sample ID: RHMW19-WGN01B-2208WK5, OWDFMW04A-WGN01LF-2208WK5, OWDFMW04A-WGFD01LF-2208WK5, OWDFMW05A-WGN01LF-2208WK5, RHMW09-WGN01B-2208WK5
Sample Date: 8/29/22
Lab: Eurofins Seattle

Report Date: 06-Sep-2022 21:39:02 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_061.D				
Injection Date:	06-Sep-2022 21:01:30	Instrument ID:	TAC020		
Lims ID:	MB 580-402808/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	59	Worklist Smp#:	122
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



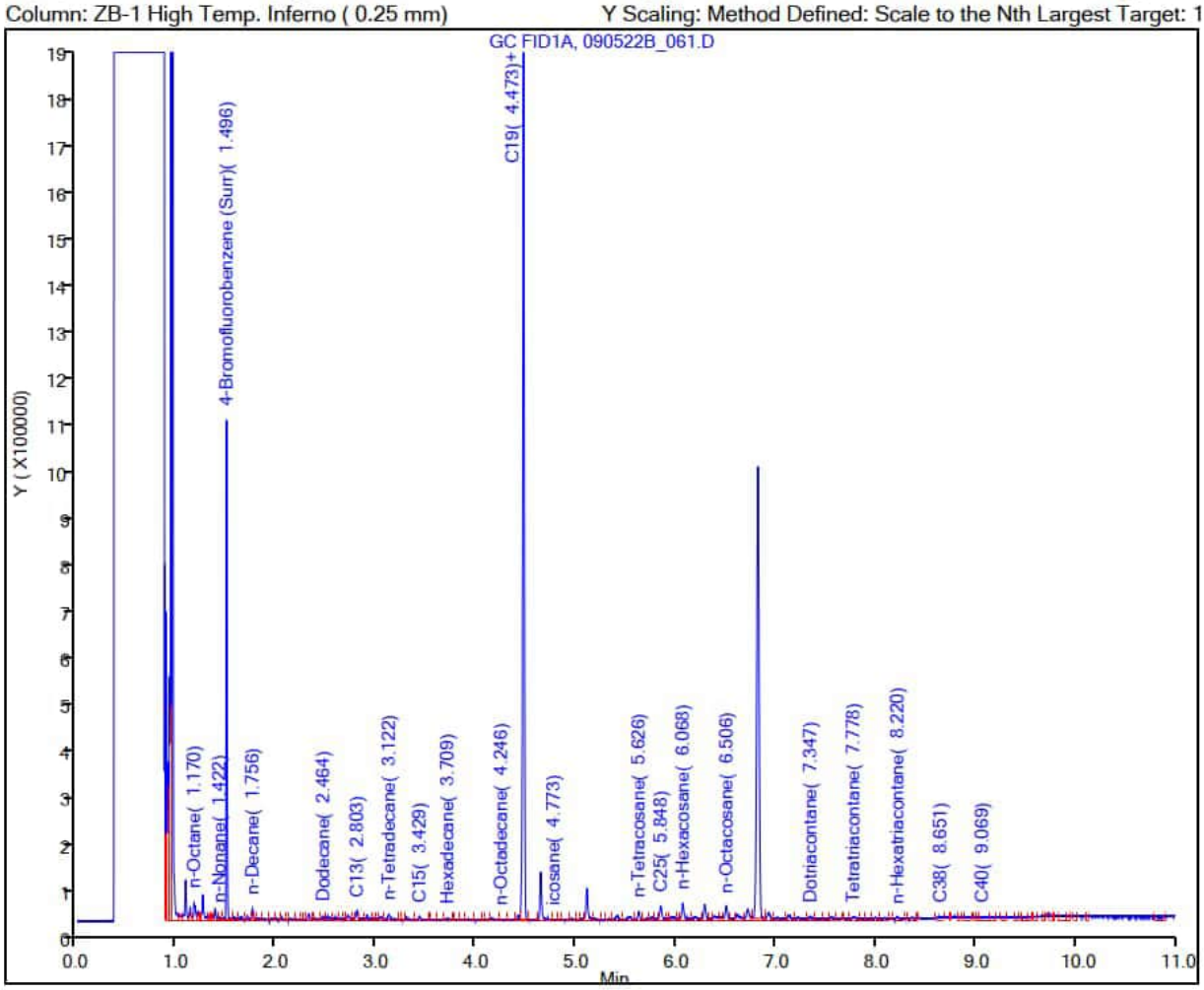
Method Blank Associated with Location: RHMW11-05, RHMW14-03
Sample ID: RHMW11-05-WGN01G-2208WK5, RHMW14-03-WGN01G-2208WK5
Sample Date: 8/29/22
Lab: Eurofins Seattle

Report Date: 06-Sep-2022 21:39:02 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_061.D				
Injection Date:	06-Sep-2022 21:01:30	Instrument ID:	TAC020		
Lims ID:	MB 580-402808/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	59	Worklist Smp#:	122
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



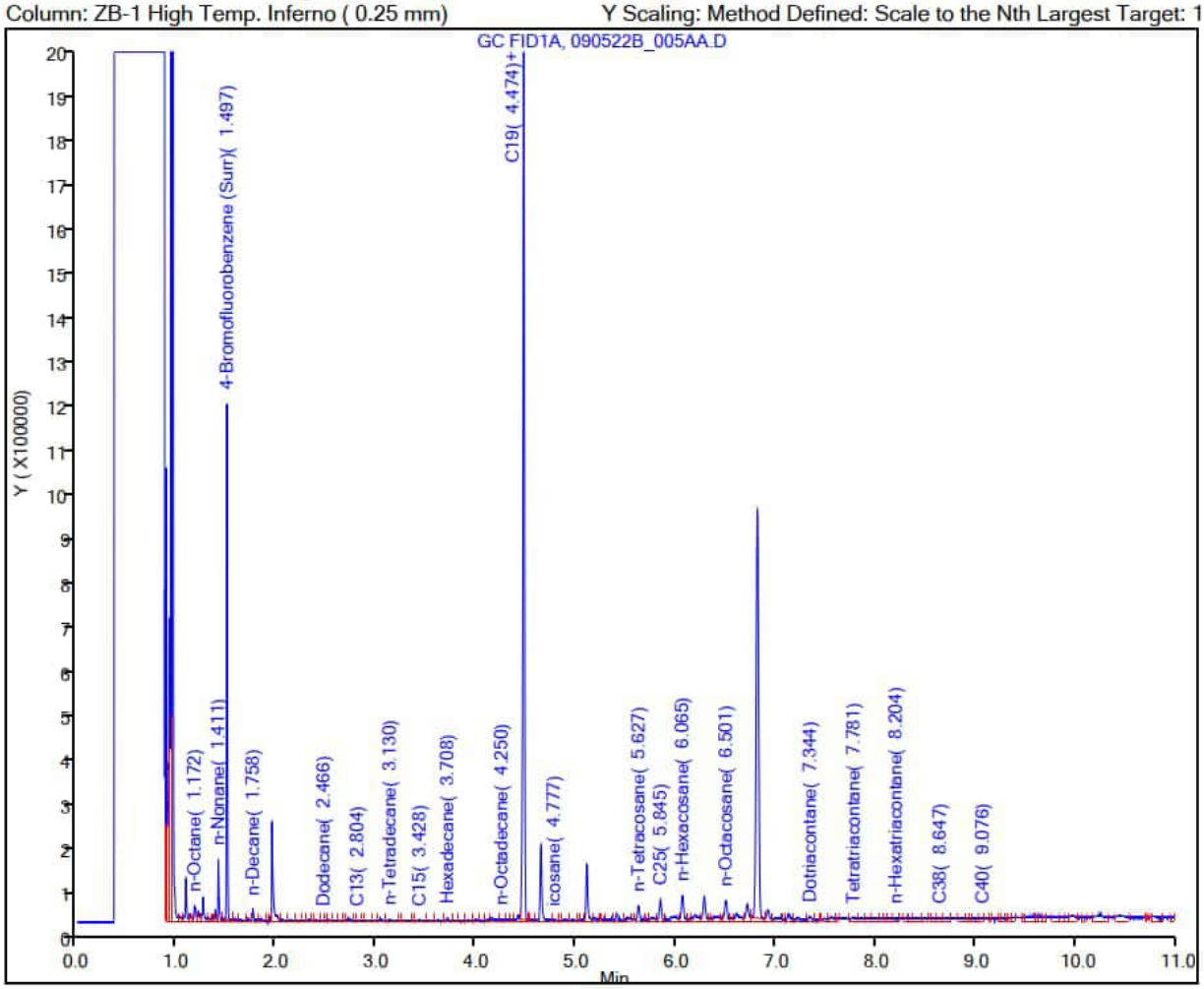
Method Blank Associated with Location: OWDFMW07A, RHMW15-05
Sample ID: OWDFMW07A-WGN01LF-2208WK5, RHMW15-05-WGN01G-2208WK5
Sample Date: 8/30/22
Lab: Eurofins Seattle

Report Date: 06-Sep-2022 02:20:28 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_005AA.D				
Injection Date:	05-Sep-2022 22:21:30	Instrument ID:	TAC020		
Lims ID:	MB 580-402950/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



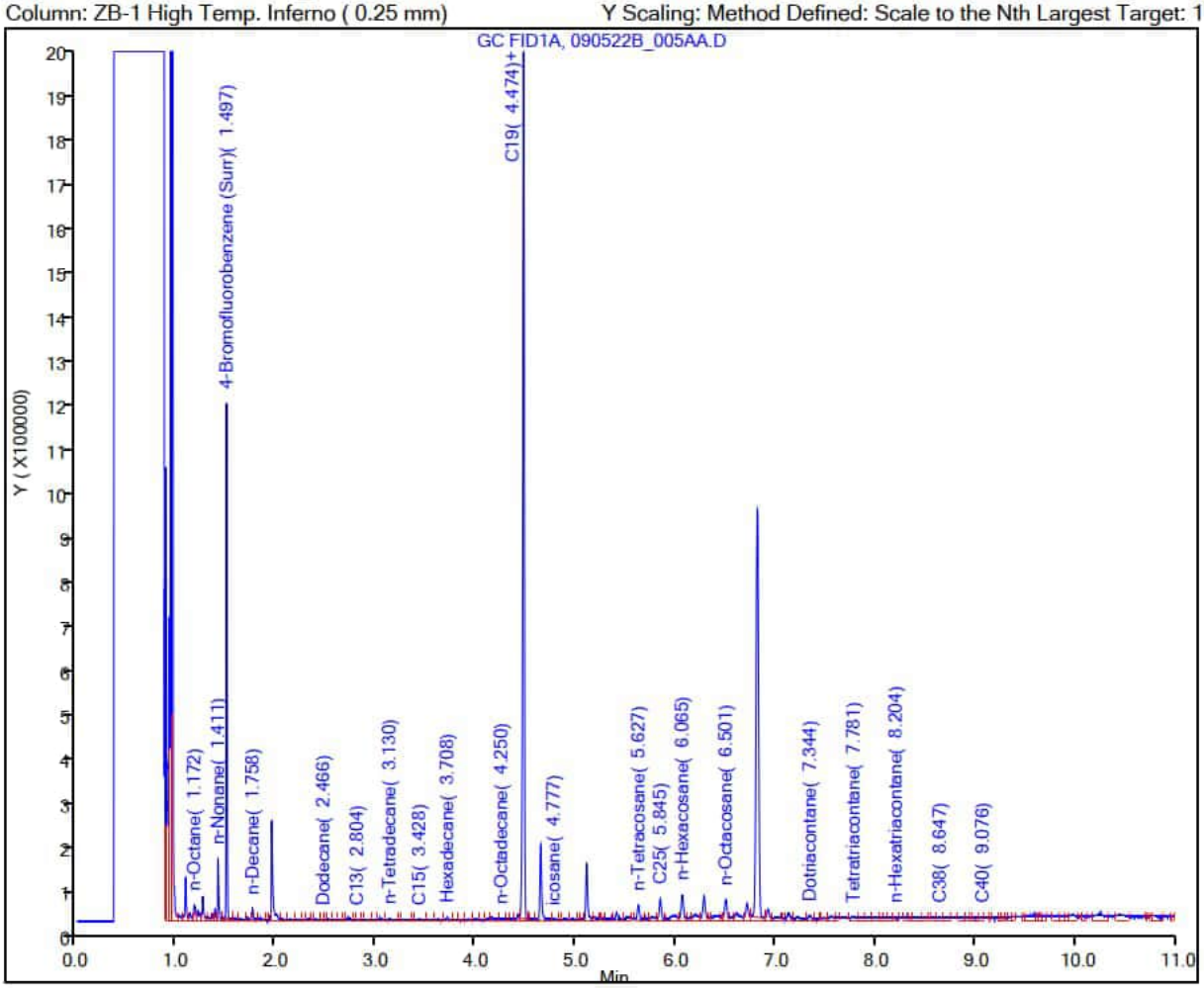
Method Blank Associated with Location: RHMW01R, RHMW02, RHMW03, RHMW05
Sample ID: RHMW02-WGN01B-2208WK5, RHMW01R-WGN01B-2208WK5, RHMW05-WGN01B-2208WK5, RHMW03-WGN01B-2208WK5
Sample Date: 8/30/22
Lab: Eurofins Seattle

Report Date: 06-Sep-2022 02:20:28 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_005AA.D				
Injection Date:	05-Sep-2022 22:21:30	Instrument ID:	TAC020		
Lims ID:	MB 580-402950/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



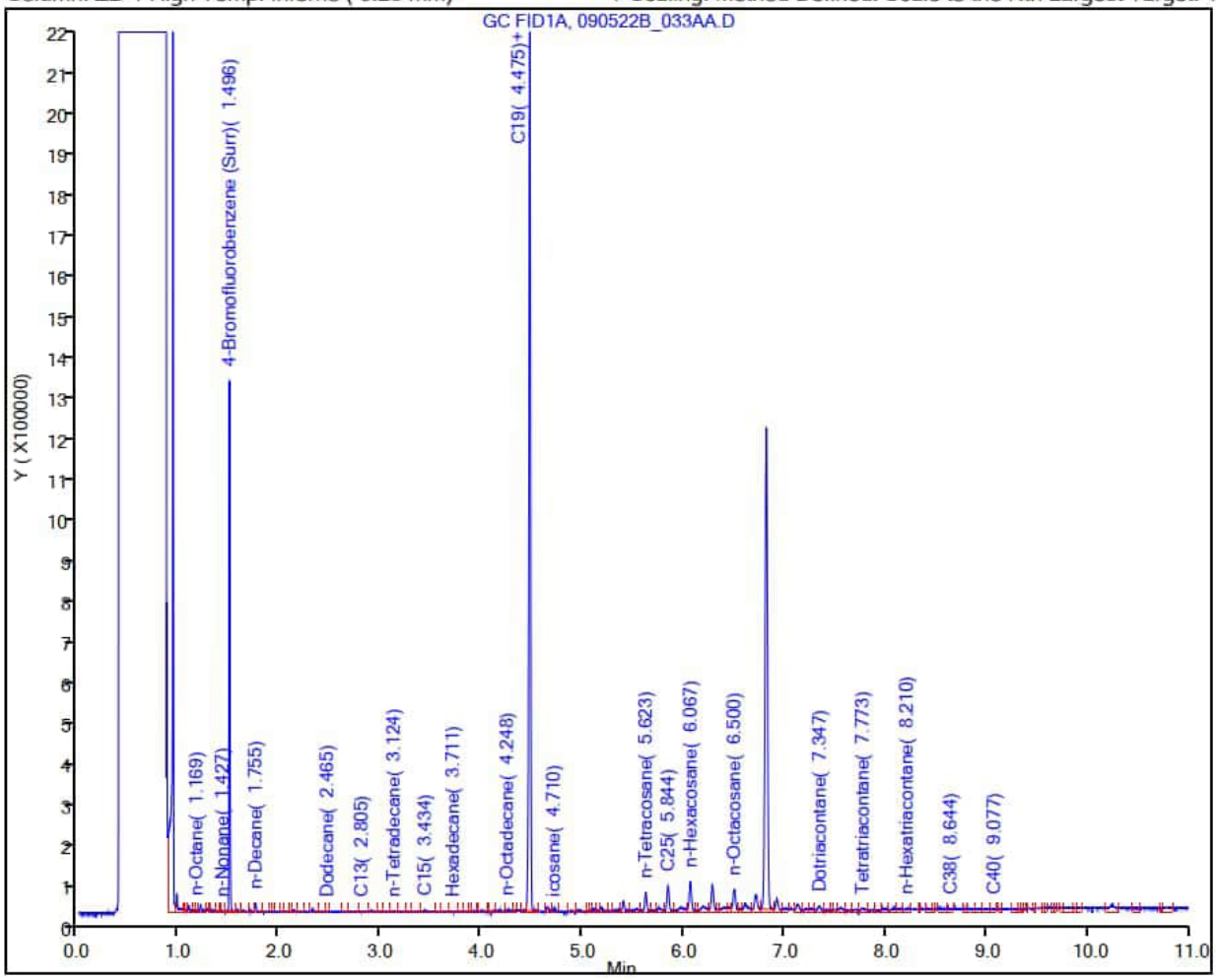
Method Blank Associated with Location: RHMW01R, RHMW02, RHMW03, RHMW05
Sample ID: RHMW02-WGN01B-2208WK5, RHMW01R-WGN01B-2208WK5, RHMW05-WGN01B-2208WK5, RHMW03-WGN01B-2208WK5
Sample Date: 8/30/22
Lab: Eurofins Seattle

Report Date: 06-Sep-2022 11:41:50 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_033AA.D				
Injection Date:	06-Sep-2022 07:45:30	Instrument ID:	TAC020		
Lims ID:	MB 580-402950/1-B				
Client ID:					
Operator ID:	DH	ALS Bottle#:	32	Worklist Smp#:	92
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



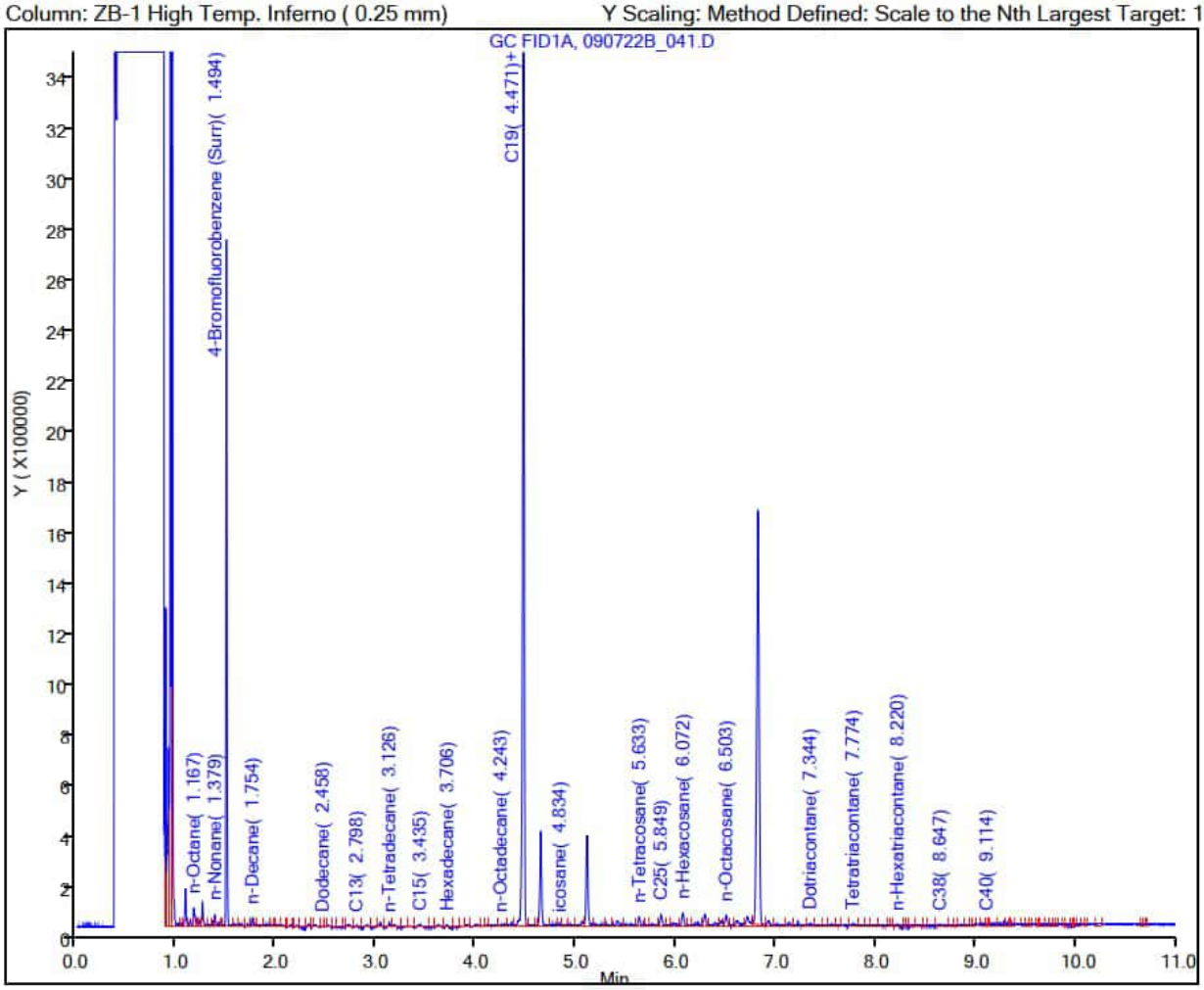
Method Blank Associated with Location: RHMW13-05
Sample ID: RHMW13-05-WGN01G-2208WK5
Sample Date: 8/31/22
Lab: Eurofins Seattle

Report Date: 08-Sep-2022 15:57:47 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220907-84710.b\090722B_041.D				
Injection Date:	08-Sep-2022 13:05:30	Instrument ID:	TAC020		
Lims ID:	MB 580-403110/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	40	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



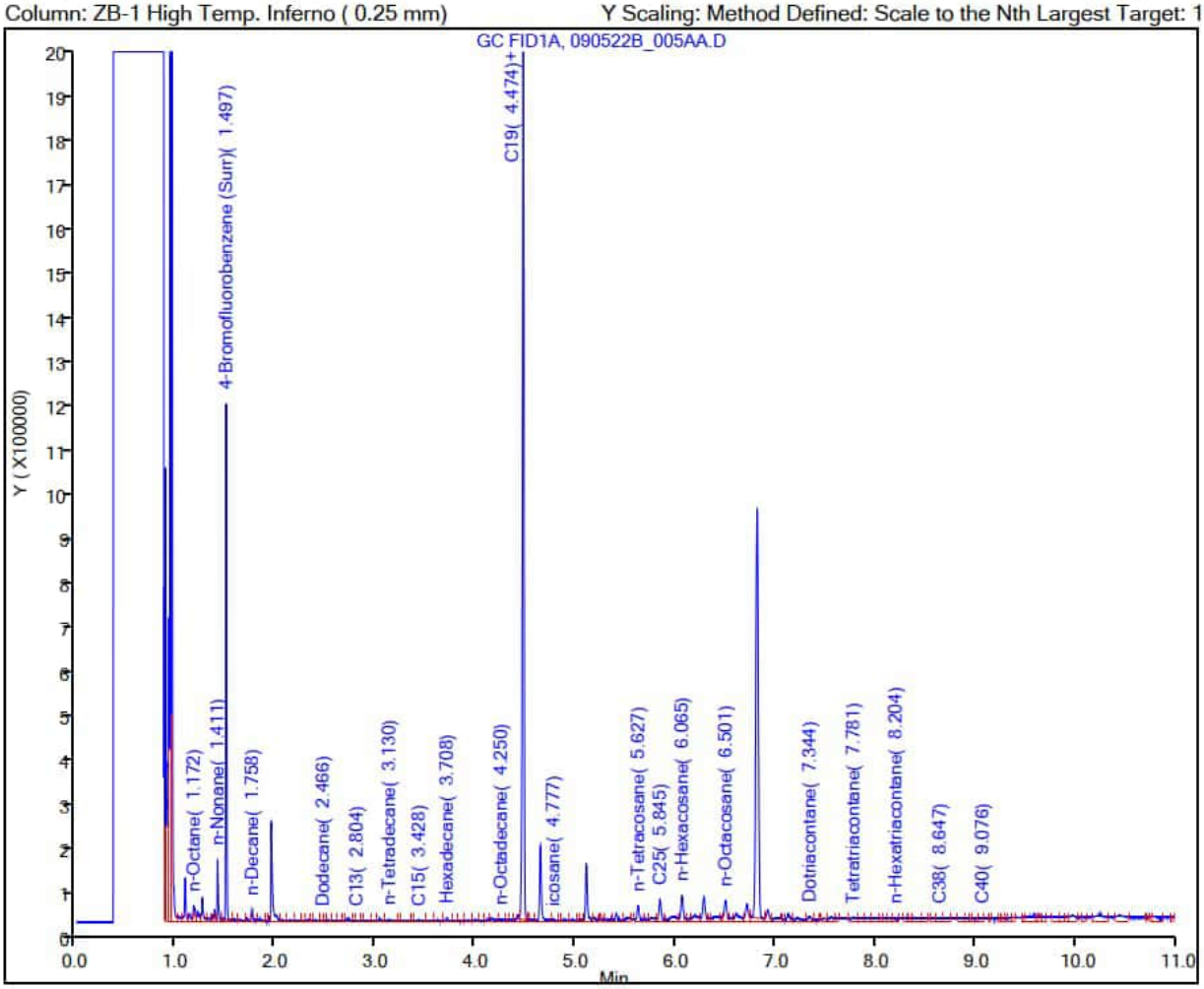
Method Blank Associated with Location: OWDFMW01, RHMW04, RHMW06, RHMW08
Sample ID: RHMW06-WGN01B-2208WK5, RHMW08-WGN01B-2208WK5, RHMW04-WGN01B-2208WK5, RHMW04-WGFD01B-2208WK5, OWDFMW01-WGN01LF-2208WK5
Sample Date: 8/31/22
Lab: Eurofins Seattle

Report Date: 06-Sep-2022 02:20:28 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_005AA.D				
Injection Date:	05-Sep-2022 22:21:30	Instrument ID:	TAC020		
Lims ID:	MB 580-402950/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



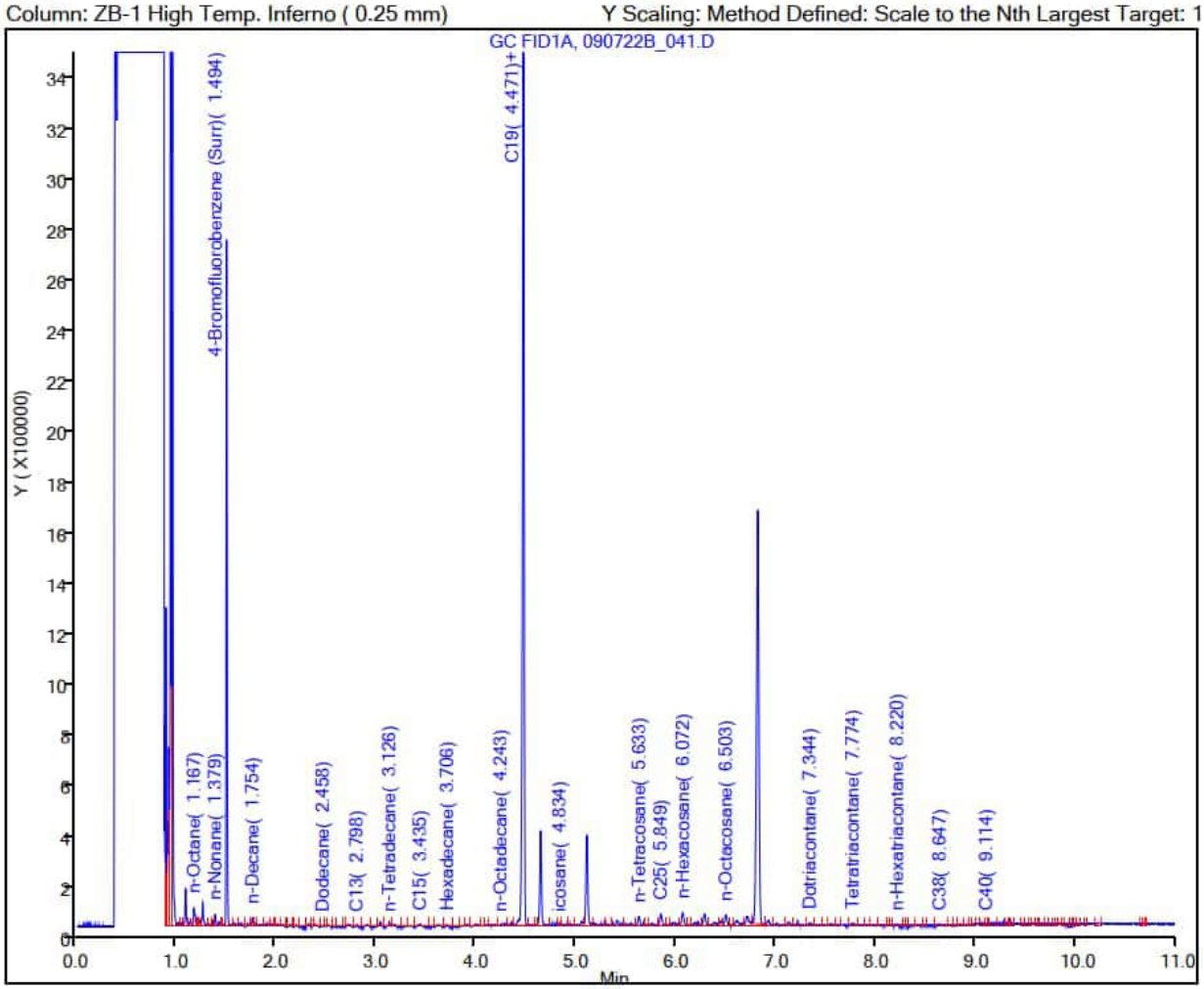
Method Blank Associated with Location: RHMW17, RHMW2254-01
Sample ID: RHMW2254-01-WGN01B-2208WK5, RHMW17-WGN01B-2208WK5
Sample Date: 8/31/22-9/1/22
Lab: Eurofins Seattle

Report Date: 08-Sep-2022 15:57:47 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220907-84710.b\090722B_041.D				
Injection Date:	08-Sep-2022 13:05:30	Instrument ID:	TAC020		
Lims ID:	MB 580-403110/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	40	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



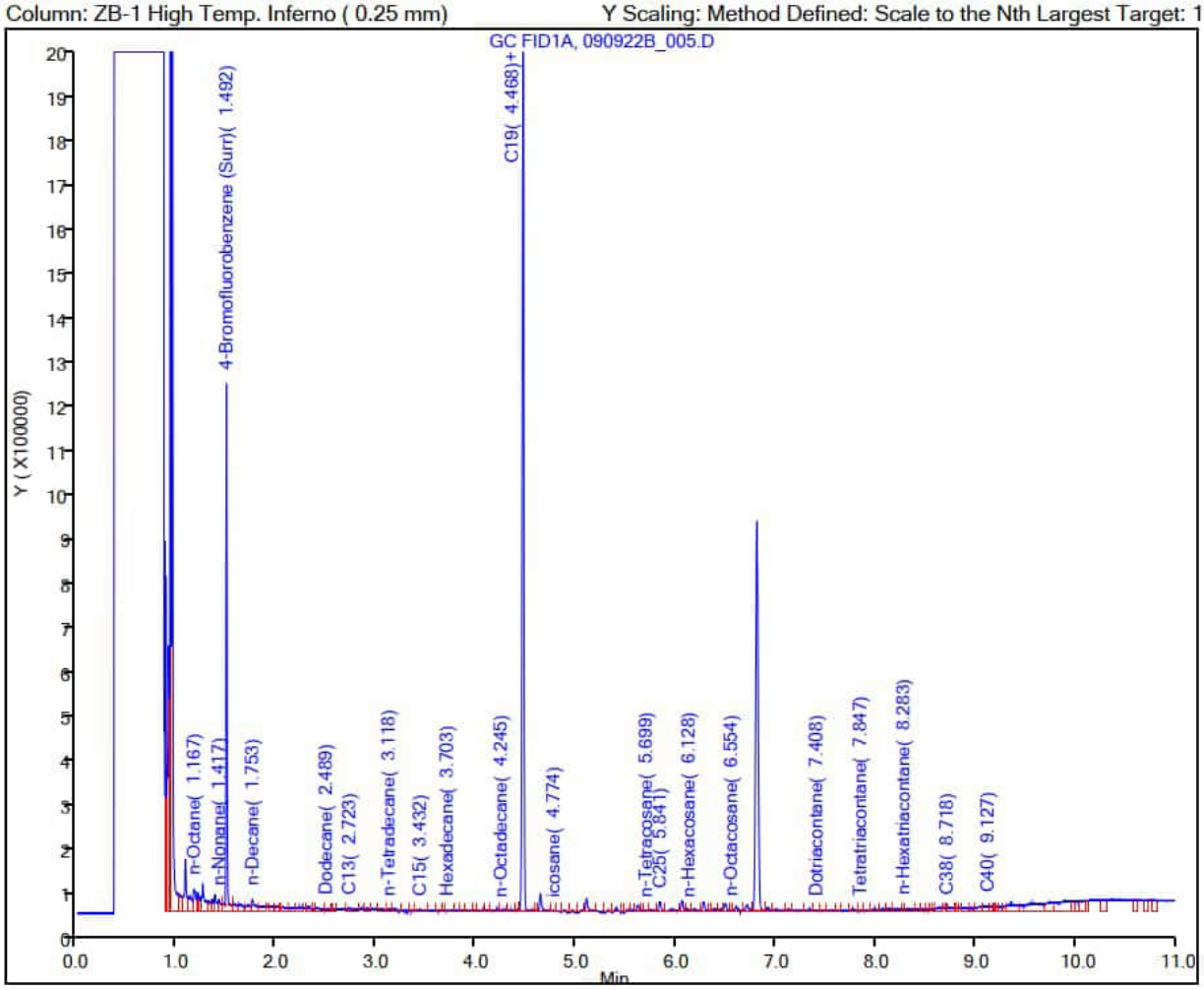
Method Blank Associated with Location: RHMW12A, RHMW16, RHMW2254-01
Sample ID: RHMW16-WGN01LF-2208WK5, RHMW12A-WGN01LF-2208WK5, RHMW2254-01-WGN01LF-2208WK5
Sample Date: 9/1/22
Lab: Eurofins Seattle

Report Date: 09-Sep-2022 15:12:46 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220909-84744.b\090922B_005.D				
Injection Date:	09-Sep-2022 14:09:30	Instrument ID:	TAC020		
Lims ID:	MB 580-403257/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



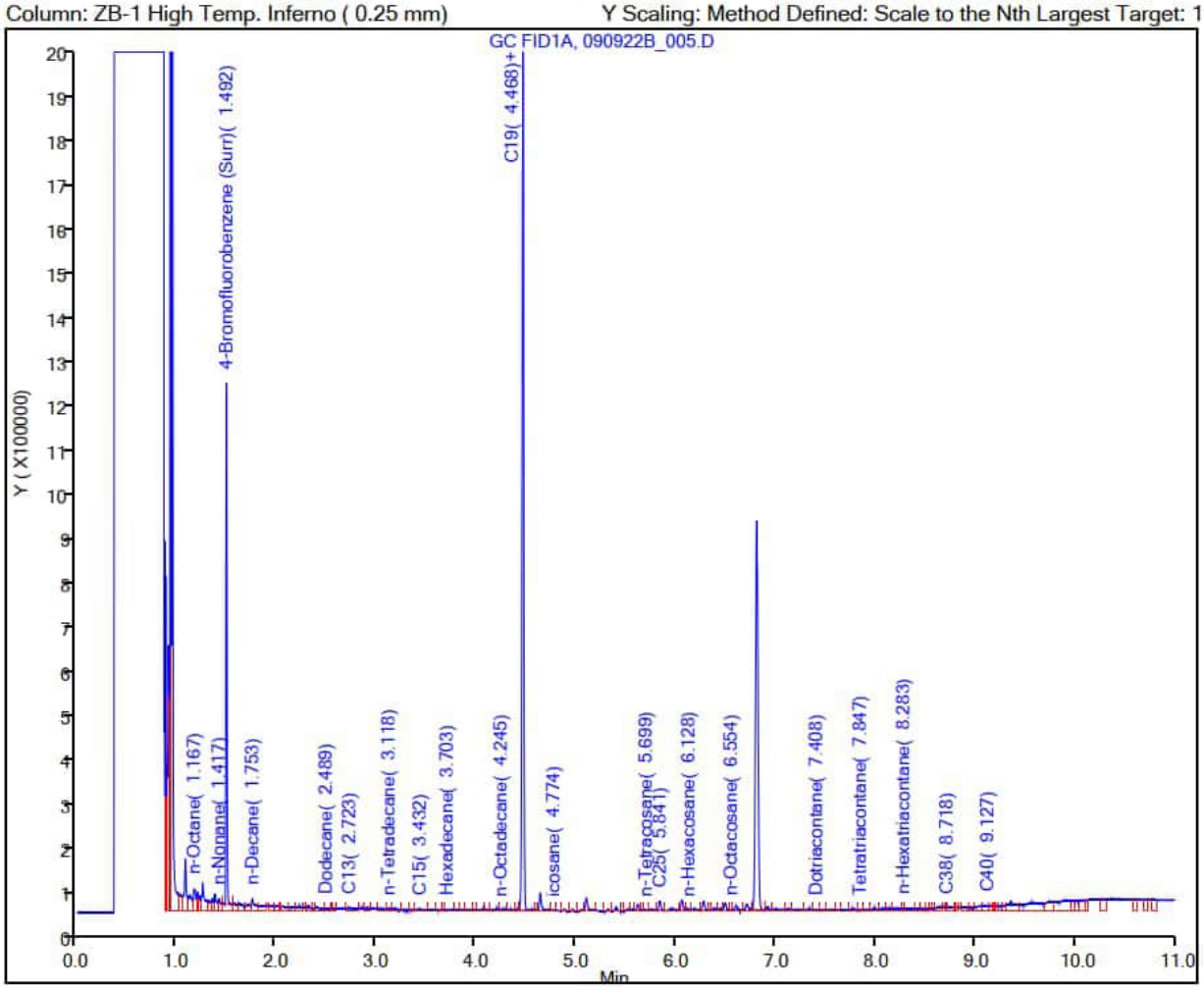
Method Blank Associated with Location: OWDFMW04A, OWDFMW05A
Sample ID: OWDFMW04A-WGN01LF-2209WK1, OWDFMW04A-WGFD01LF-2209WK1, OWDFMW05A-WGN01LF-2209WK1
Sample Date: 9/6/22
Lab: Eurofins Seattle

Report Date: 09-Sep-2022 15:12:46 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220909-84744.b\090922B_005.D				
Injection Date:	09-Sep-2022 14:09:30	Instrument ID:	TAC020		
Lims ID:	MB 580-403257/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



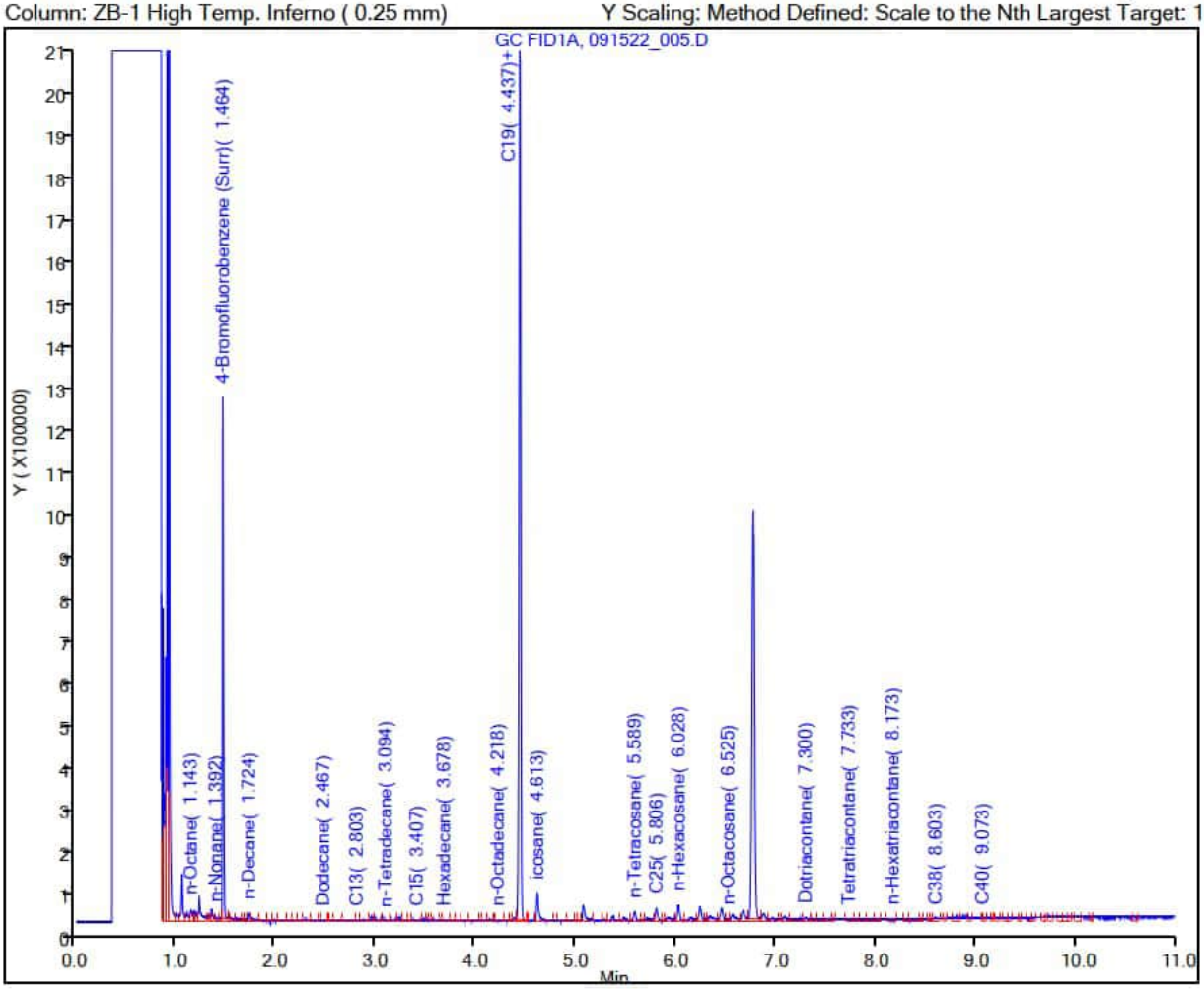
Method Blank Associated with Location: OWDFMW05A, RHMW13-05, RHMW15-05
Sample ID: RHMW15-05-WGN01G-2209WK2, RHMW13-05-WGN01G-2209WK1, OWDFMW05A-WGN01LF-2209WK2
Sample Date: 9/9/22-9/12/22
Lab: Eurofins Seattle

Report Date: 16-Sep-2022 14:53:41 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220915-84852.b\091522_005.D				
Injection Date:	15-Sep-2022 19:05:30	Instrument ID:	TAC020		
Lims ID:	MB 580-403945/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



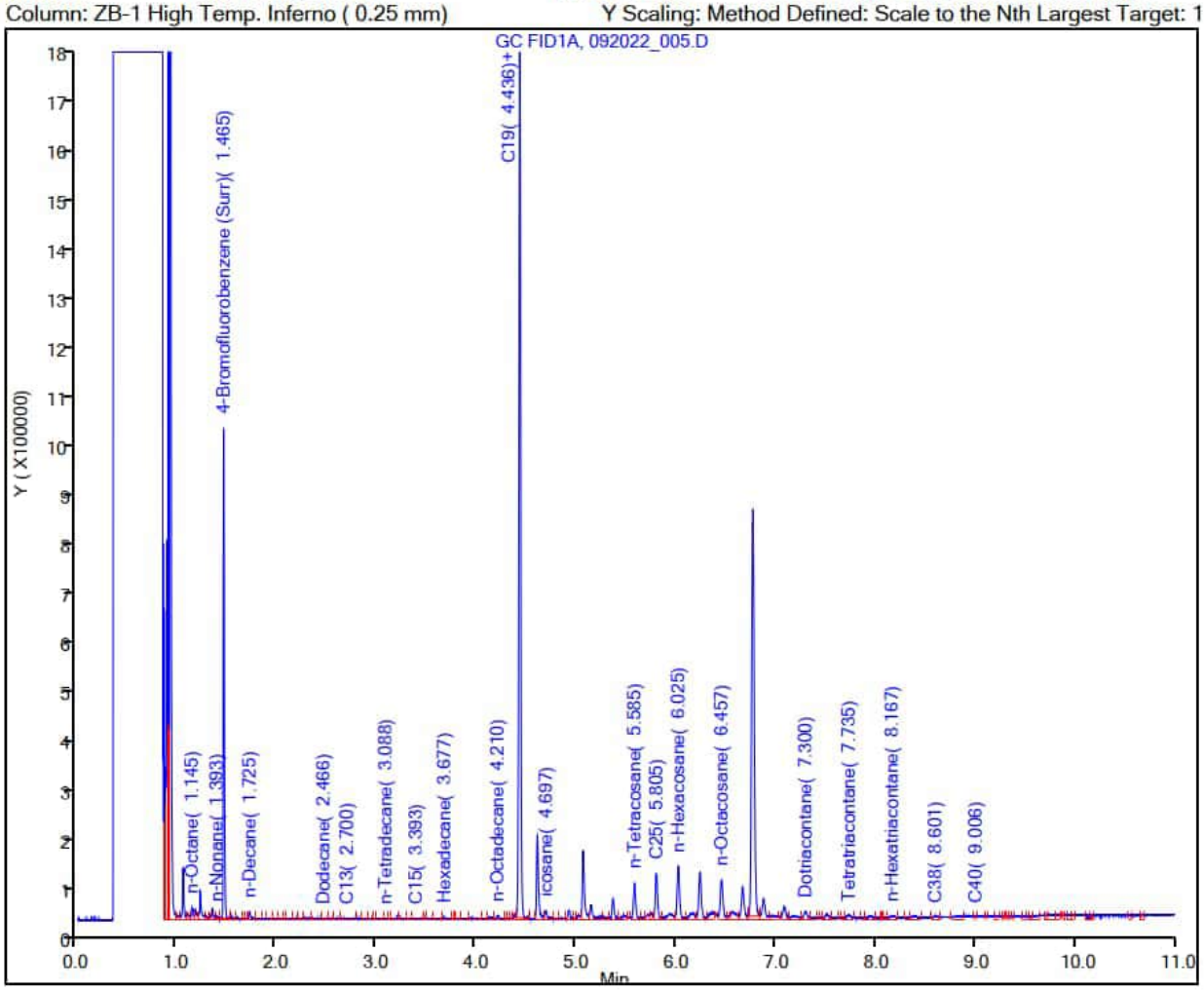
Method Blank Associated with Location: OWDFMW01, RHMW04, RHMW06, RHMW08, RHMW13-05, RHMW17
Sample ID: OWDFMW01-WGN01LF-2209WK2, RHMW17-WGN01B-2209WK2, RHMW06-WGN01B-2209WK2, RHMW08-WGN01B-2209WK2, RHMW13-05-WGN01G-2209WK2, RHMW04-WGN01B-2209WK2, RHMW04-WGFD01B-2209WK2
Sample Date: 9/14/22
Lab: Eurofins Seattle

Report Date: 21-Sep-2022 13:07:35 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_005.D				
Injection Date:	20-Sep-2022 19:18:30	Instrument ID:	TAC020		
Lims ID:	MB 580-404350/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



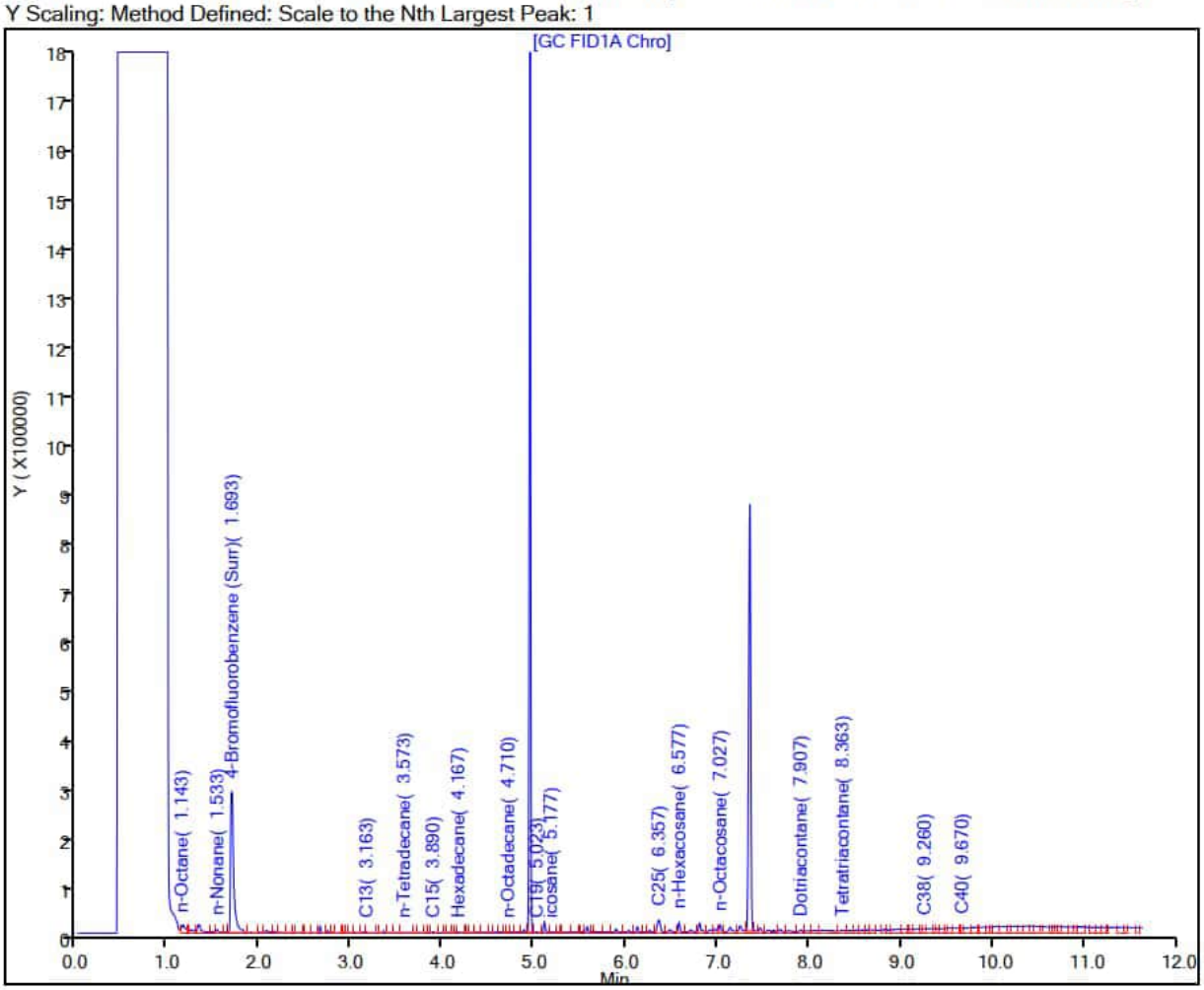
Method Blank Associated with Location: ADIT3-SUMP, OWDFMW07A, OWDFMW08A, RHMW2254-01
Sample ID: OWDFMW07A-WGN01LF-2209WK2, OWDFMW08A-WGN01LF-2209WK2, OWDFMW08A-WGFD01LF-2209WK2, RHMW2254-01-WGN01LF-2209WK2, RHMW2254-01-WGN01B-2209WK2, ADIT3-SUMP-WGN01B-2209WK2
Sample Date: 9/15/22
Lab: Eurofins Seattle

Report Date: 22-Sep-2022 20:48:36 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220921-84938.b\092122A036.D				
Injection Date:	21-Sep-2022 19:41:19	Instrument ID:	TAC129		
Lims ID:	MB 580-404491/1-A				
Client ID:					
Operator ID:	ADB	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



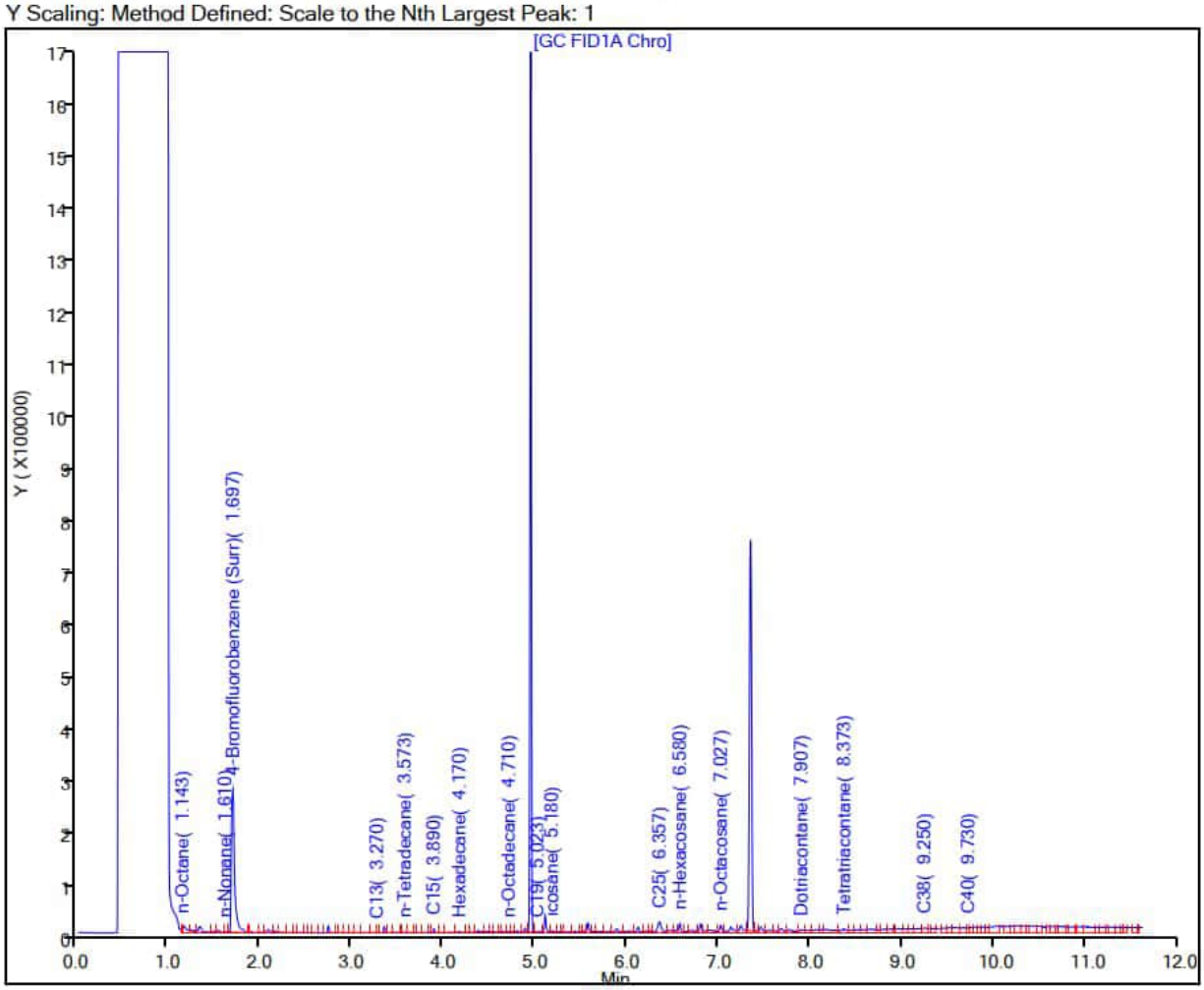
Method Blank Associated with Location: OWDFMW05A, RHMW09, RHMW19
Sample ID: OWDFMW05A-WGN01LF-2209WK3, RHMW19-WGN01B-2209WK3, RHMW09-WGN01B-2209WK3
Sample Date: 9/19/22
Lab: Eurofins Seattle

Report Date: 24-Sep-2022 22:00:12 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220923-84999.b\092322A008.D				
Injection Date:	23-Sep-2022 17:36:27	Instrument ID:	TAC129		
Lims ID:	MB 580-404799/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



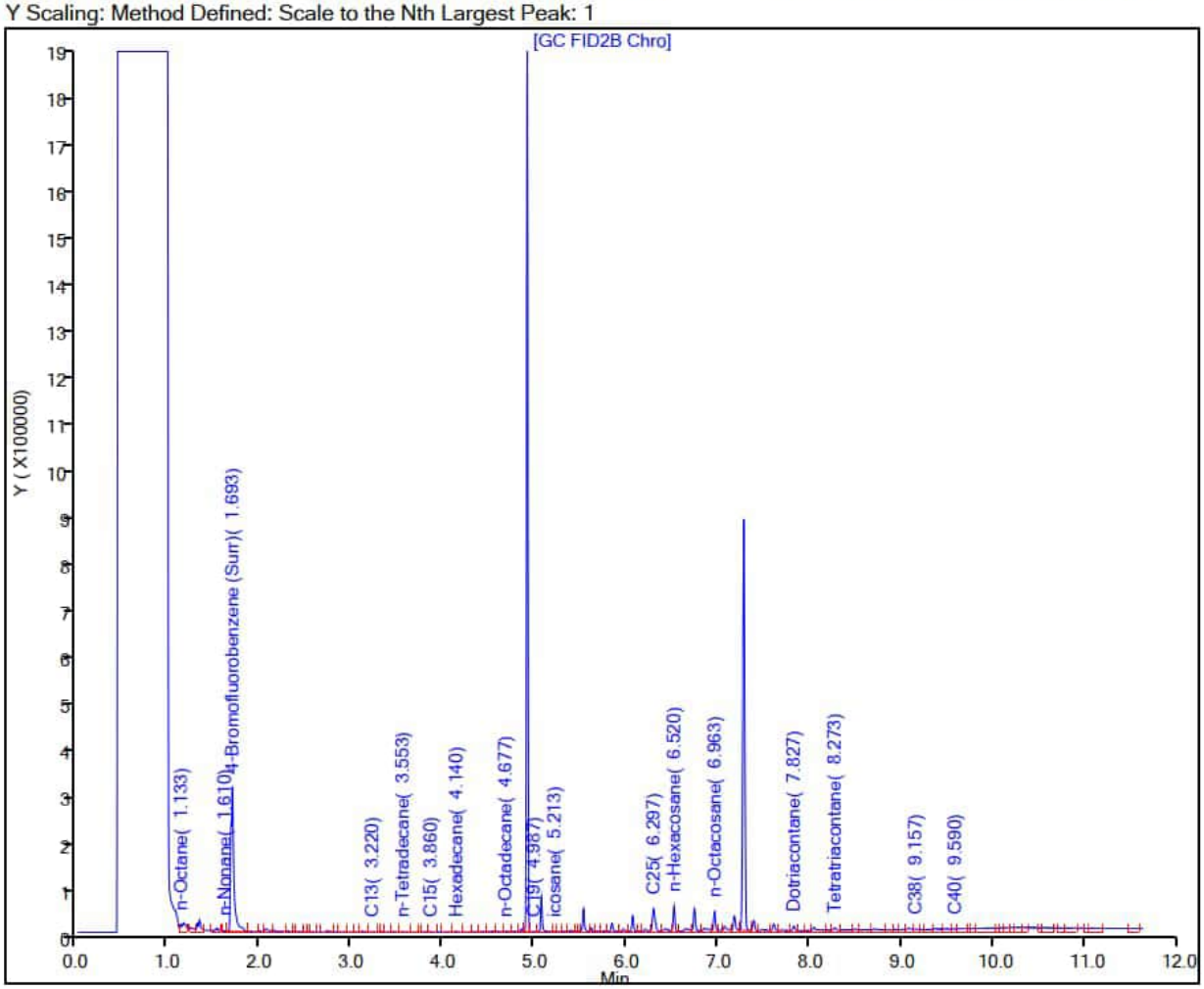
Method Blank Associated with Location: RHMW02, RHMW03, RHMW05, RHMW14-03
Sample ID: RHMW14-03-WGN01G-2209WK3, RHMW03-WGN01B-2209WK3, RHMW05-WGN01B-2209WK3, RHMW02-WGN01B-2209WK3
Sample Date: 9/20/22
Lab: Eurofins Seattle

Report Date: 27-Sep-2022 18:26:12 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A007.D				
Injection Date:	27-Sep-2022 16:43:48	Instrument ID:	TAC129_R		
Lims ID:	MB 580-404974/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



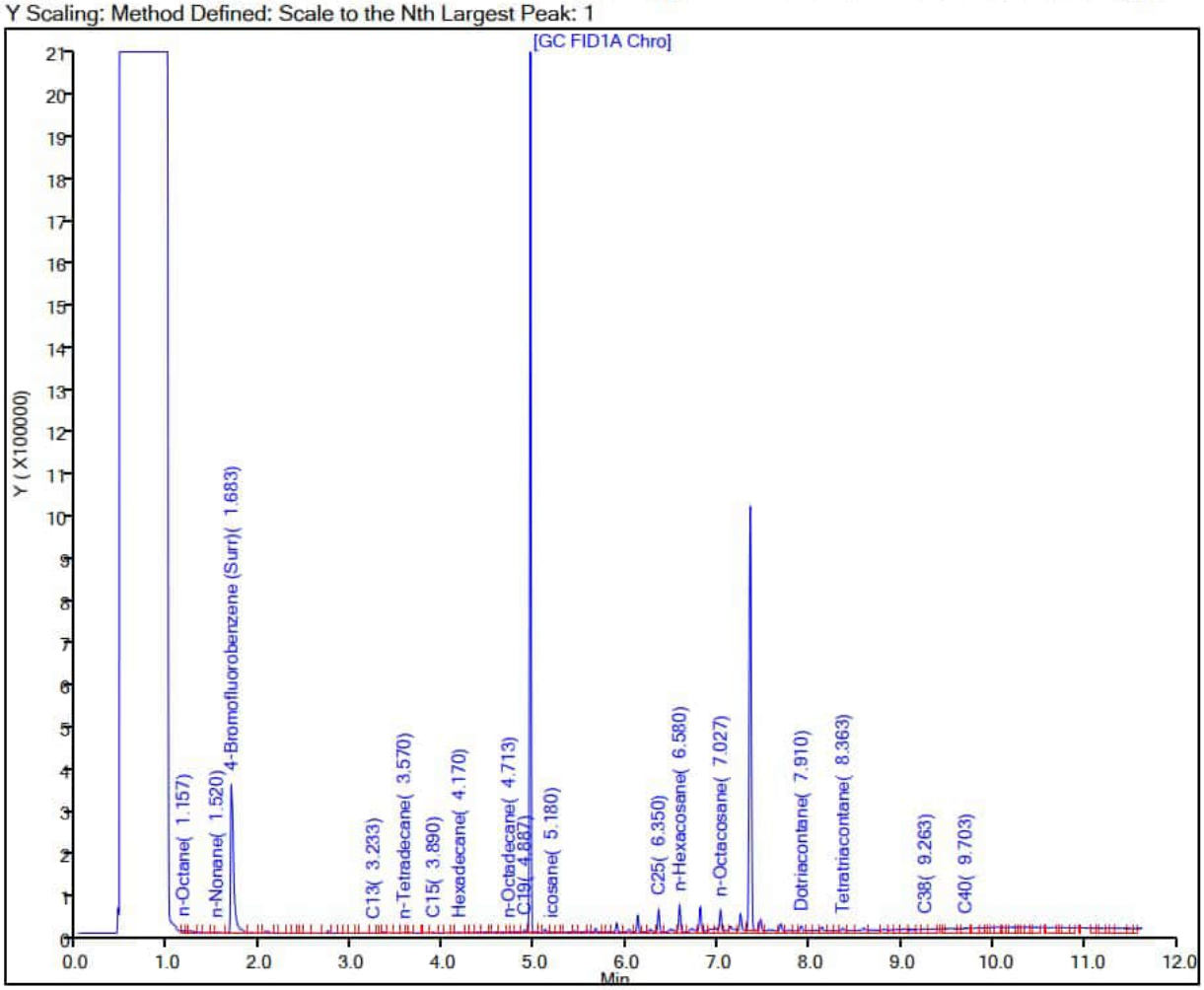
Method Blank Associated with Location: RHMW02, RHMW03, RHMW05
Sample ID: RHMW03-WGN01B-2209WK3, RHMW05-WGN01B-2209WK3, RHMW02-WGN01B-2209WK3
Sample Date: 9/20/22
Lab: Eurofins Seattle

Report Date: 29-Sep-2022 14:43:41 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220928-85071.b\092822A008.D				
Injection Date:	28-Sep-2022 18:32:20	Instrument ID:	TAC129		
Lims ID:	MB 580-404974/1-B				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



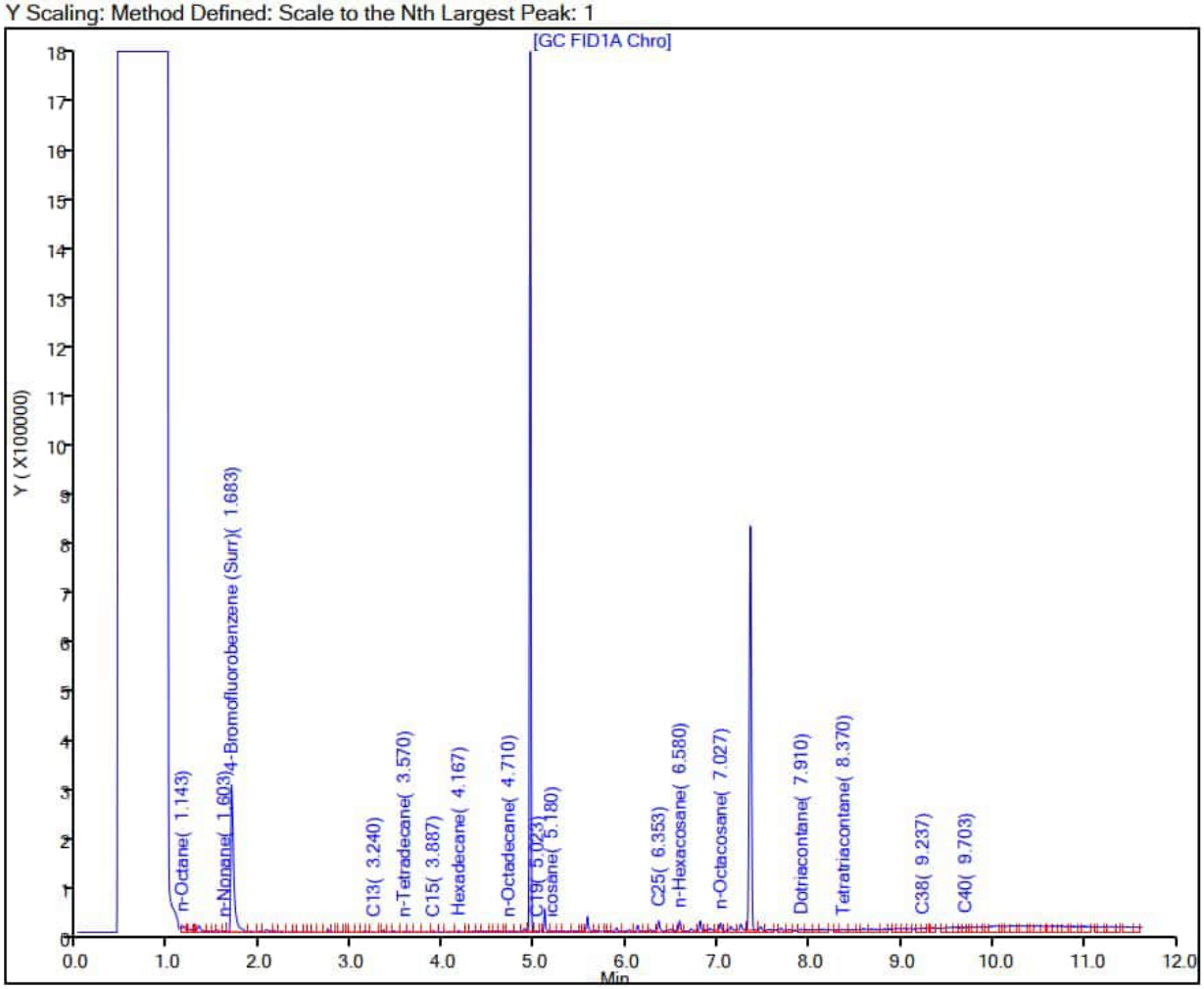
Method Blank Associated with Location: OWDFMW01, OWDFMW04A
Sample ID: OWDFMW01-WGN01LF-2209WK3, OWDFMW04A-WGN01LF-2209WK3, OWDFMW04A-WGFD01LF-2209WK3
Sample Date: 9/21/22
Lab: Eurofins Seattle

Report Date: 28-Sep-2022 15:25:09 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220927-85042.b\092722A008.D				
Injection Date:	27-Sep-2022 16:43:48	Instrument ID:	TAC129		
Lims ID:	MB 580-405074/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



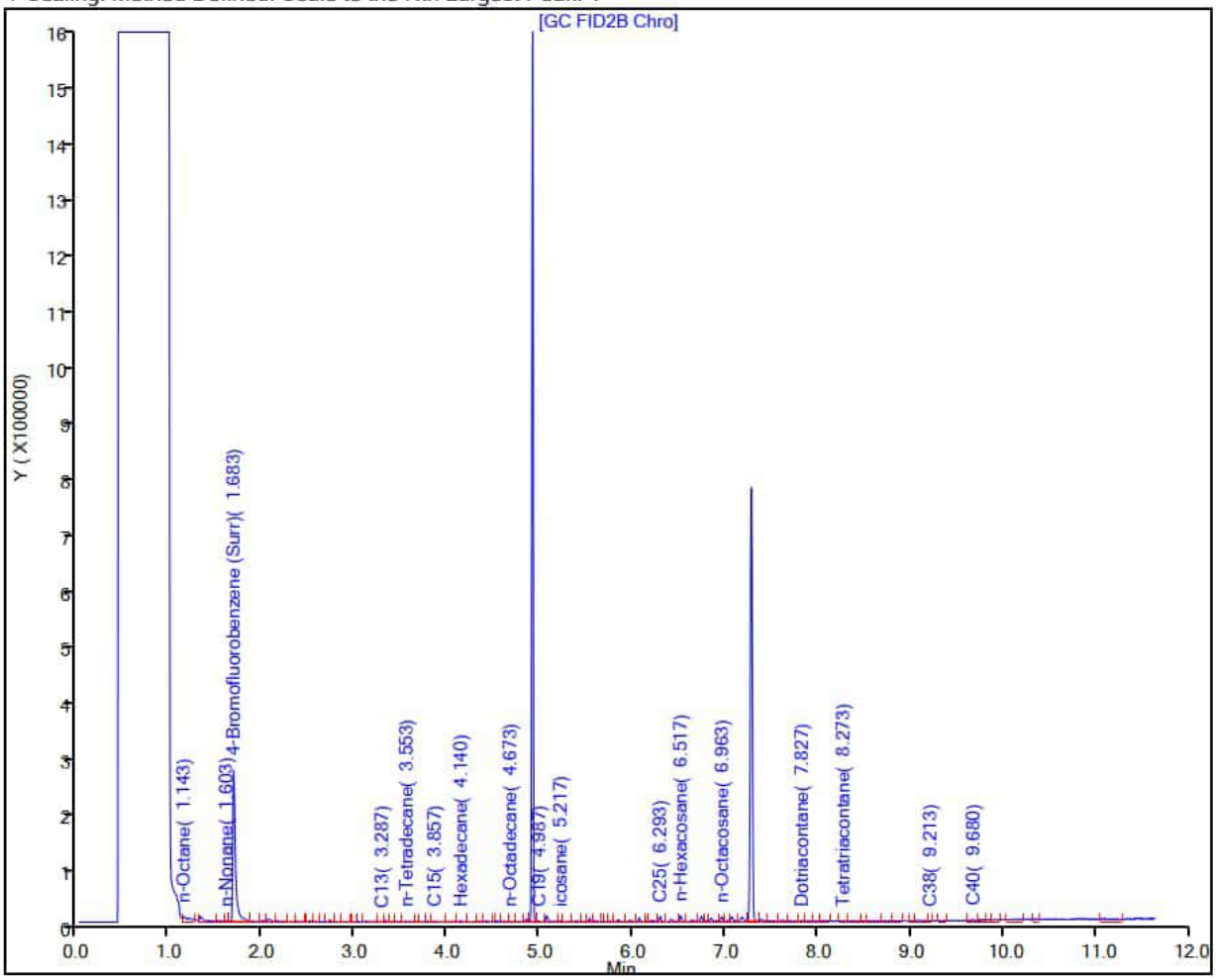
Method Blank Associated with Location: ADIT3-SUMP
Sample ID: ADIT3-SUMP-WGN01B-2209WK3
Sample Date: 9/22/22
Lab: Eurofins Seattle

Report Date: 29-Sep-2022 15:58:20 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220928-85077.b\092822A011.D				
Injection Date:	28-Sep-2022 19:10:27	Instrument ID:	TAC129_R		
Lims ID:	MB 580-405253/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



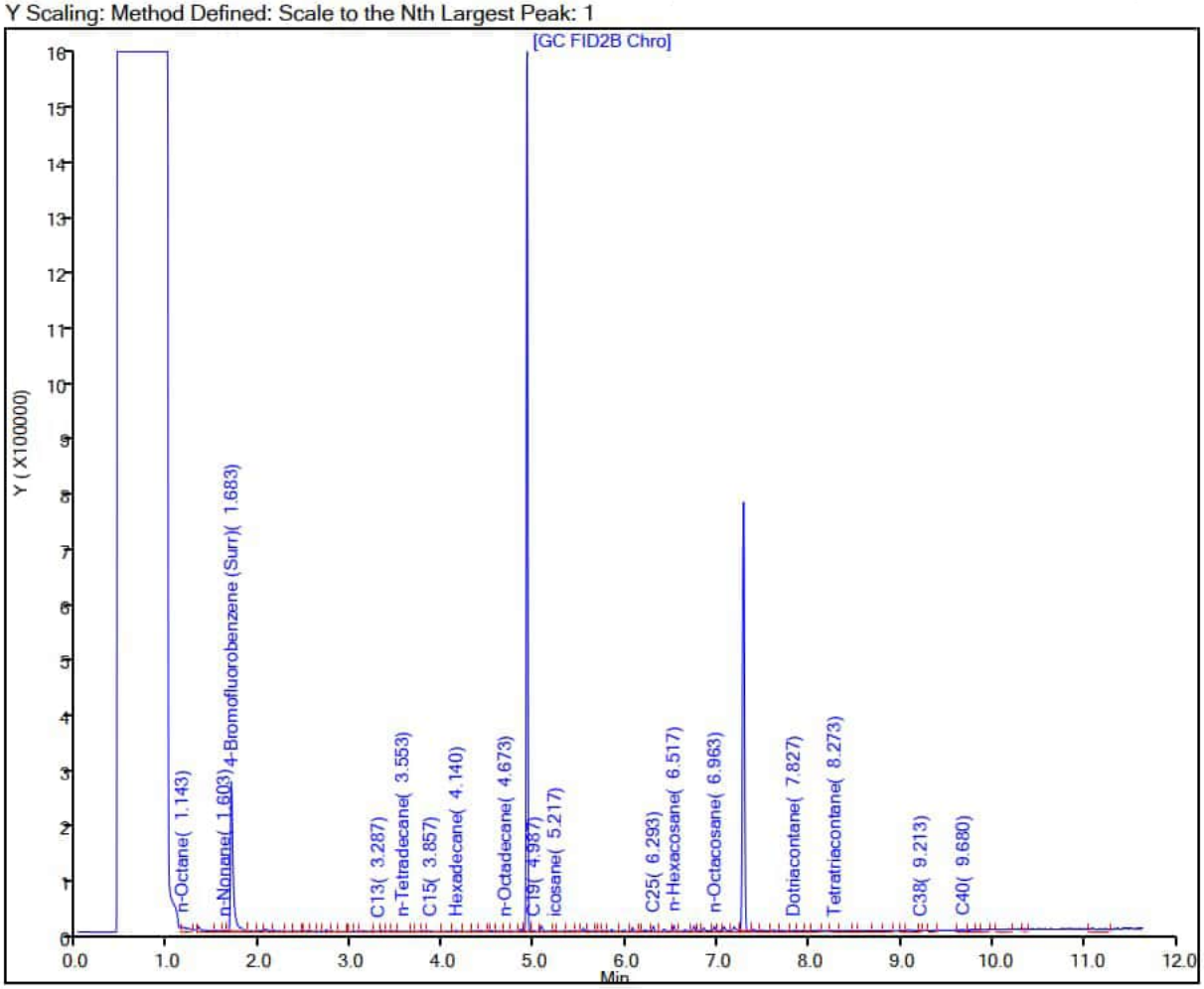
Method Blank Associated with Location: OWDFMW08A, RHMW12A, RHMW16, RHMW2254-01
Sample ID: RHMW16-WGN01LF-2209WK3, RHMW2254-01-WGN01LF-2209WK3, OWDFMW08A-WGN01LF-2209WK3, OWDFMW08A-WGFD01LF-2209WK3, RHMW12A-WGN01LF-2209WK3, RHMW2254-01-WGN01B-2209WK3
Sample Date: 9/22/22
Lab: Eurofins Seattle

Report Date: 29-Sep-2022 15:58:20 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220928-85077.b\092822A011.D				
Injection Date:	28-Sep-2022 19:10:27	Instrument ID:	TAC129_R		
Lims ID:	MB 580-405253/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



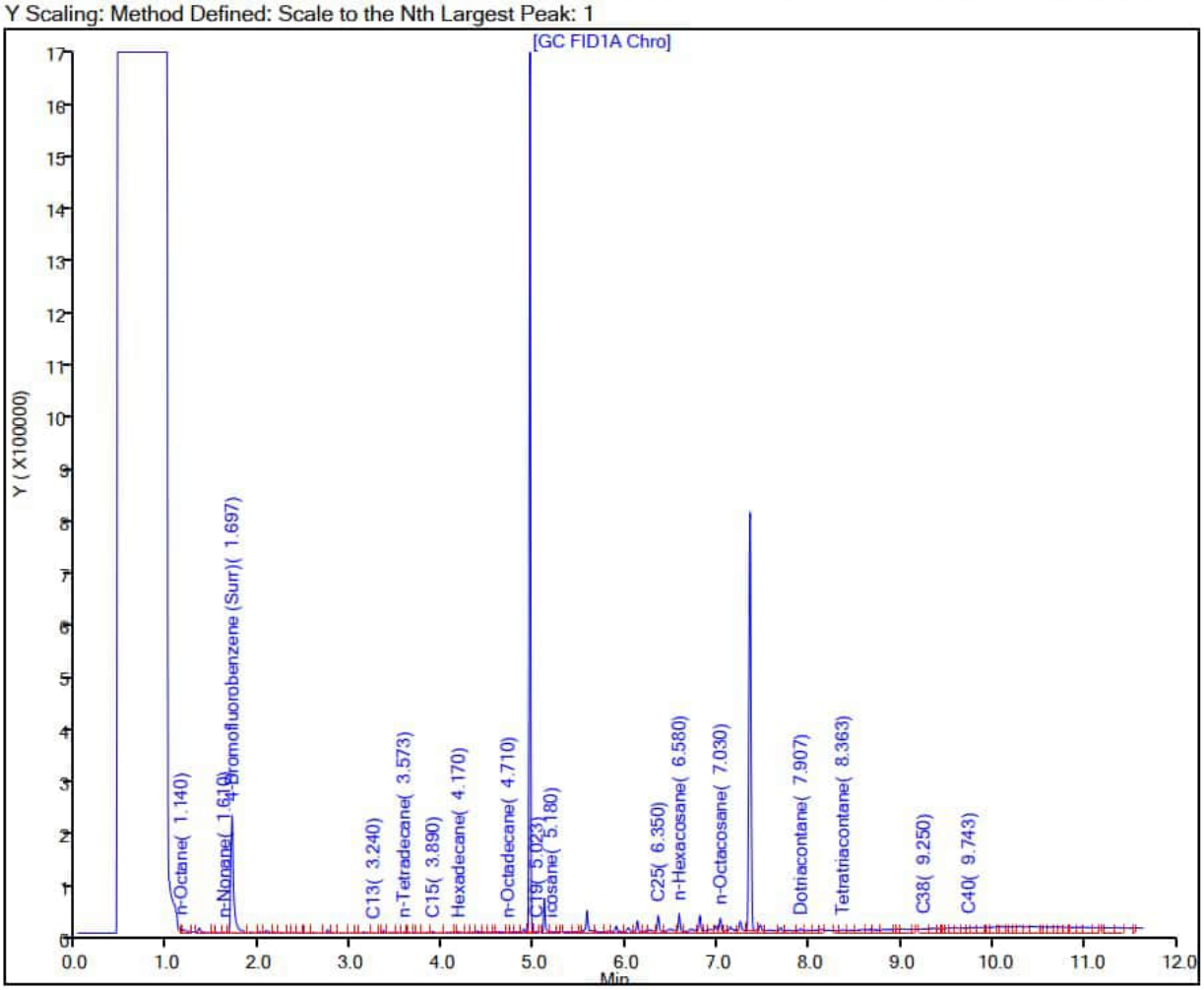
Method Blank Associated with Location: RHMW04, RHMW06, RHMW08
Sample ID: RHMW06-WGN01B-2209WK3, RHMW04-WGN01B-2209WK3, RHMW04-WGFD01B-2209WK3, RHMW08-WGN01B-2209WK3
Sample Date: 9/23/22
Lab: Eurofins Seattle

Report Date: 30-Sep-2022 15:18:30 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220929-85106.b\092922A008.D				
Injection Date:	29-Sep-2022 20:05:37	Instrument ID:	TAC129		
Lims ID:	MB 580-405395/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



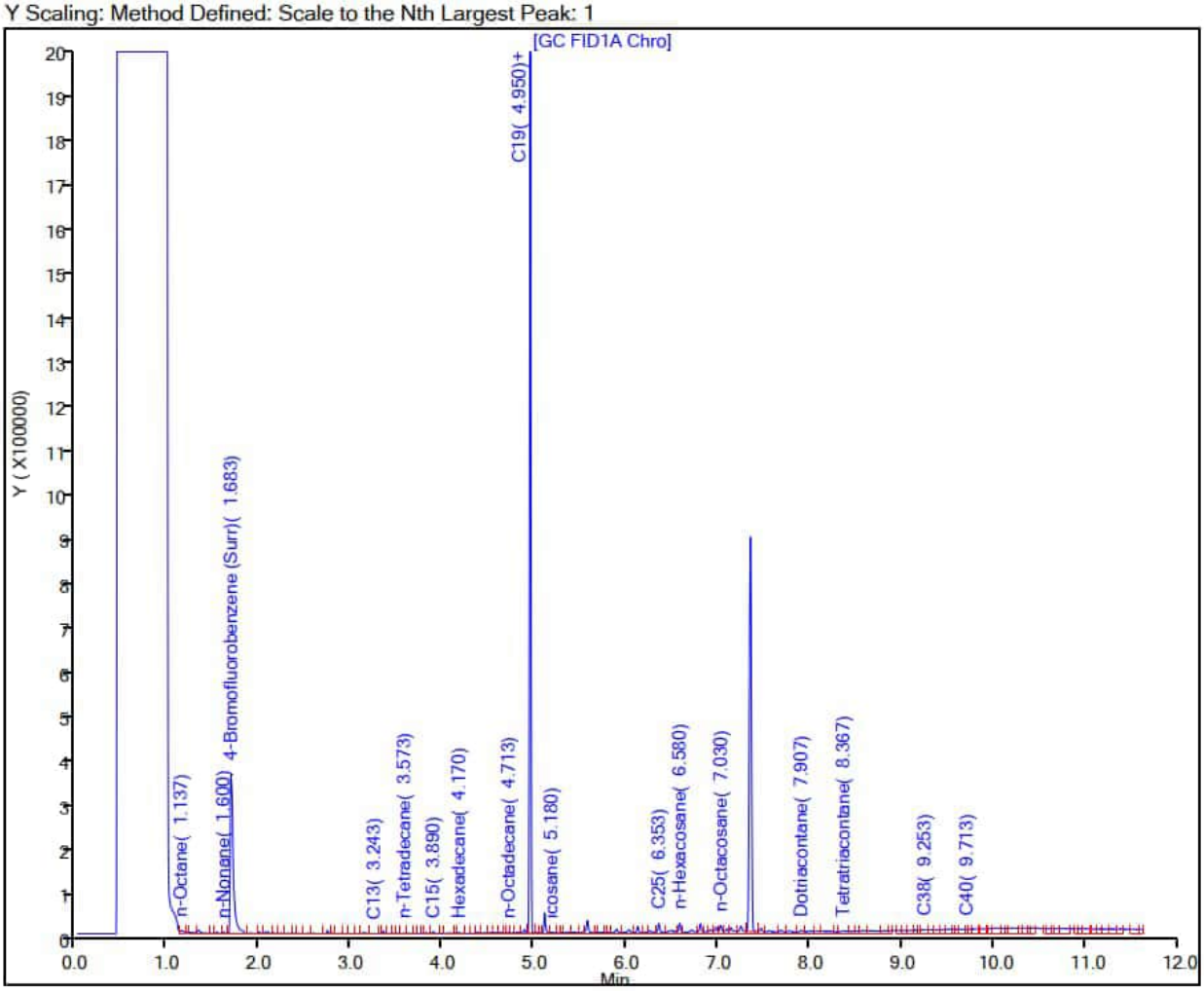
Method Blank Associated with Location: OWDFMW04A, RHMW09, RHMW19
Sample ID: OWDFMW04A-WGN01LF-2209WK4, RHMW19-WGN01B-2209WK4, RHMW09-WGN01B-2209WK4
Sample Date: 9/26/22
Lab: Eurofins Seattle

Report Date: 03-Oct-2022 13:36:16 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A008.D				
Injection Date:	30-Sep-2022 20:25:29	Instrument ID:	TAC129		
Lims ID:	MB 580-405569/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



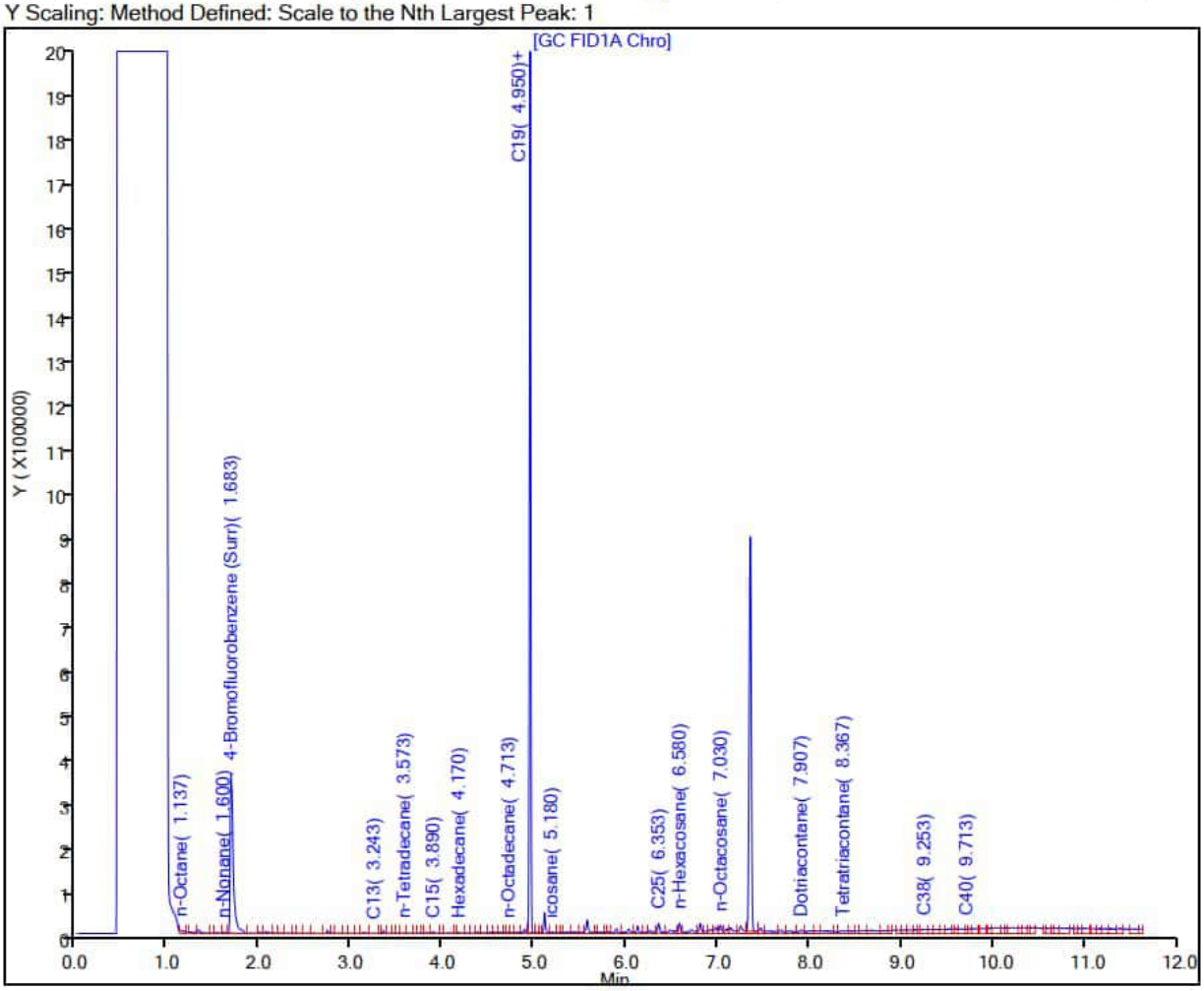
Method Blank Associated with Location: RHMW02, RHMW14-03
Sample ID: RHMW02-WGN01B-2209WK4, RHMW14-03-WGN01G-2209WK4
Sample Date: 9/27/22
Lab: Eurofins Seattle

Report Date: 03-Oct-2022 13:36:16 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A008.D				
Injection Date:	30-Sep-2022 20:25:29	Instrument ID:	TAC129		
Lims ID:	MB 580-405569/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



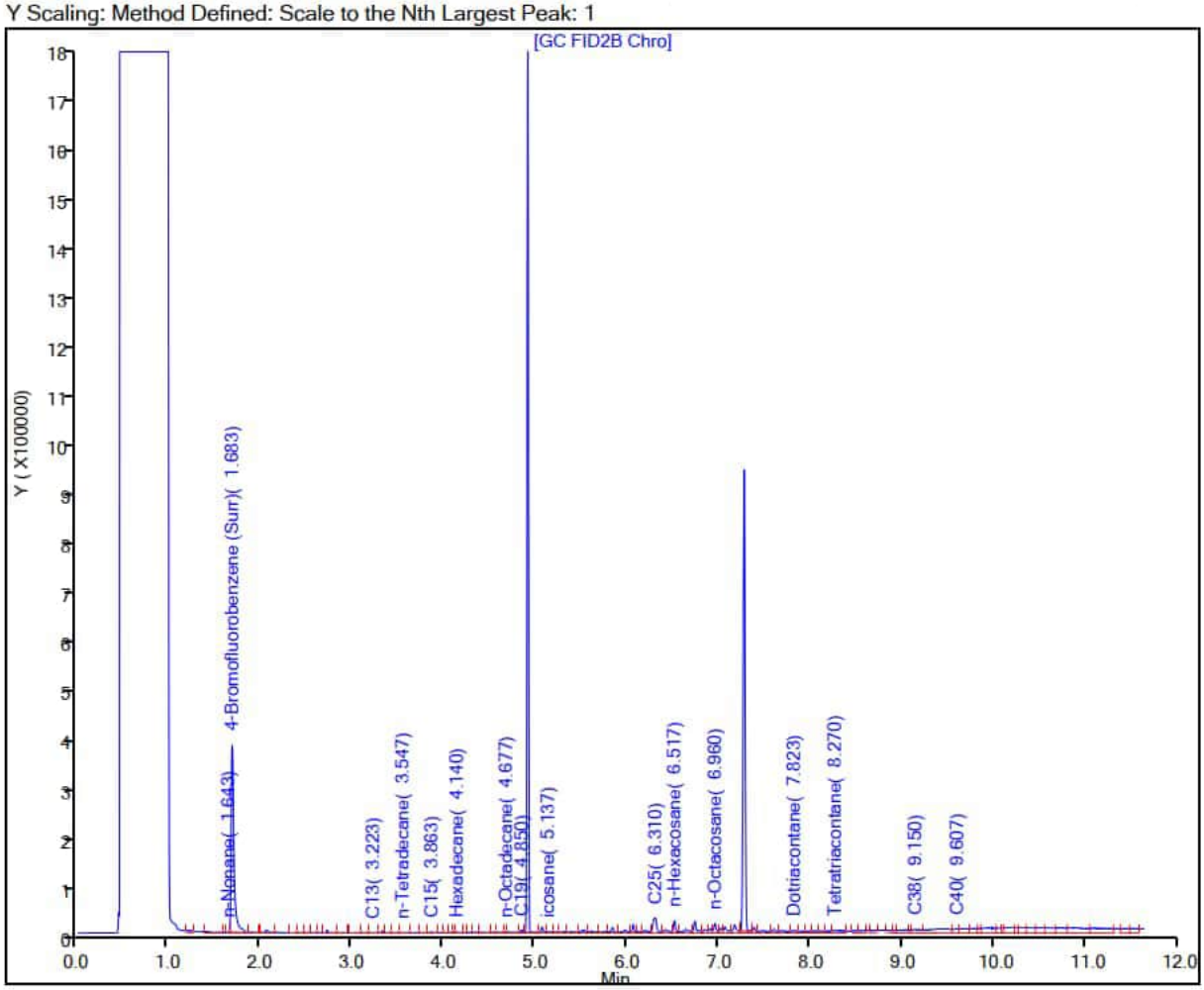
Method Blank Associated with Location: RHMW02, RHMW14-03
Sample ID: RHMW02-WGN01B-2209WK4, RHMW14-03-WGN01G-2209WK4
Sample Date: 9/27/22
Lab: Eurofins Seattle

Report Date: 03-Oct-2022 16:42:00 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220930-85133.b\093022A019.D				
Injection Date:	30-Sep-2022 22:19:01	Instrument ID:	TAC129_R		
Lims ID:	MB 580-405569/1-B				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



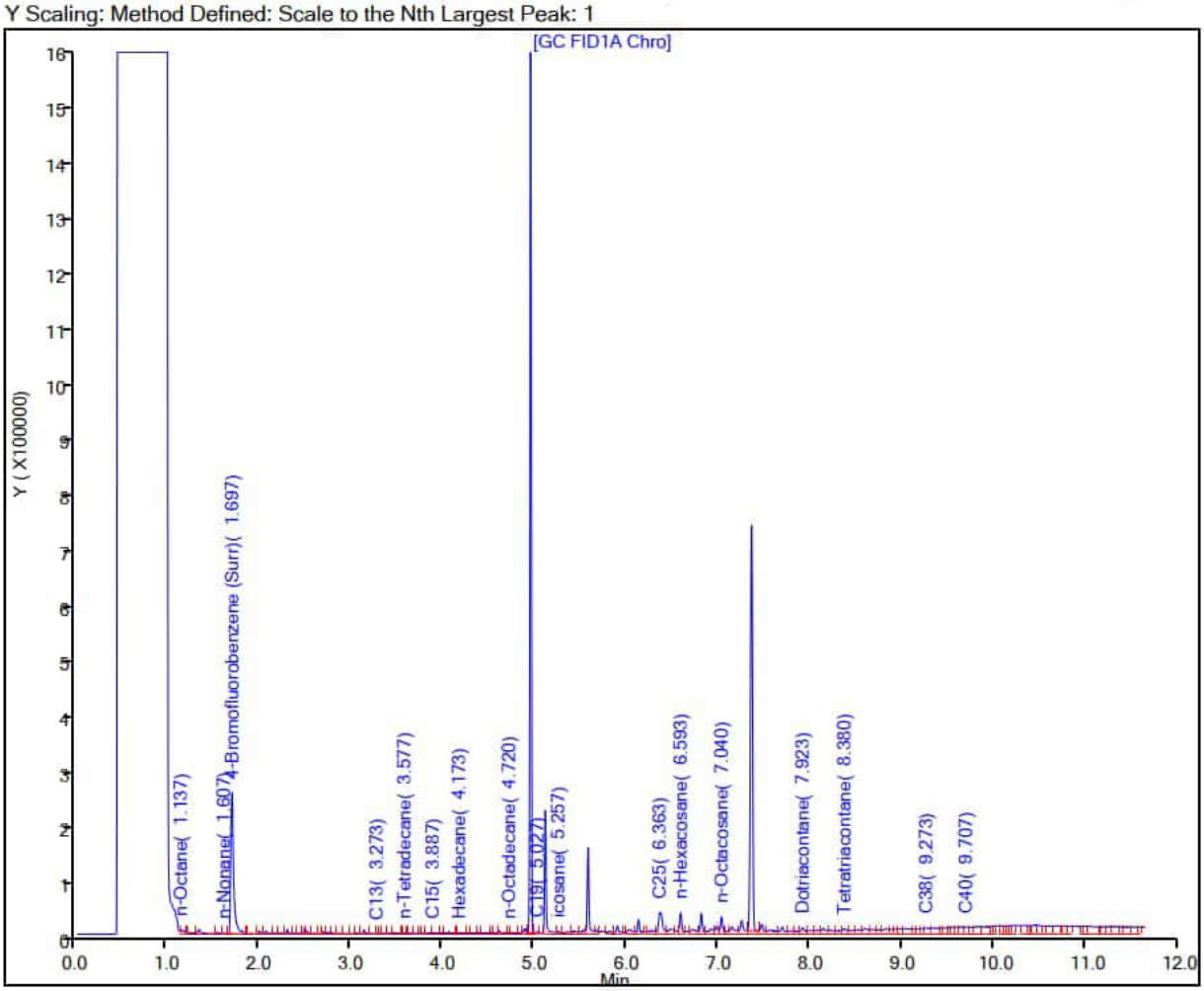
Method Blank Associated with Location: RHMW01R, RHMW03, RHMW05, RHMW11-05
Sample ID: RHMW11-05-WGN01G-2209WK4, RHMW01R-WGN01B-2209WK4, RHMW05-WGN01B-2209WK4, RHMW03-WGN01B-2209WK4
Sample Date: 9/27/22
Lab: Eurofins Seattle

Report Date: 05-Oct-2022 12:39:10 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\091522A008.D				
Injection Date:	04-Oct-2022 16:59:43	Instrument ID:	TAC129		
Lims ID:	MB 580-405743/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



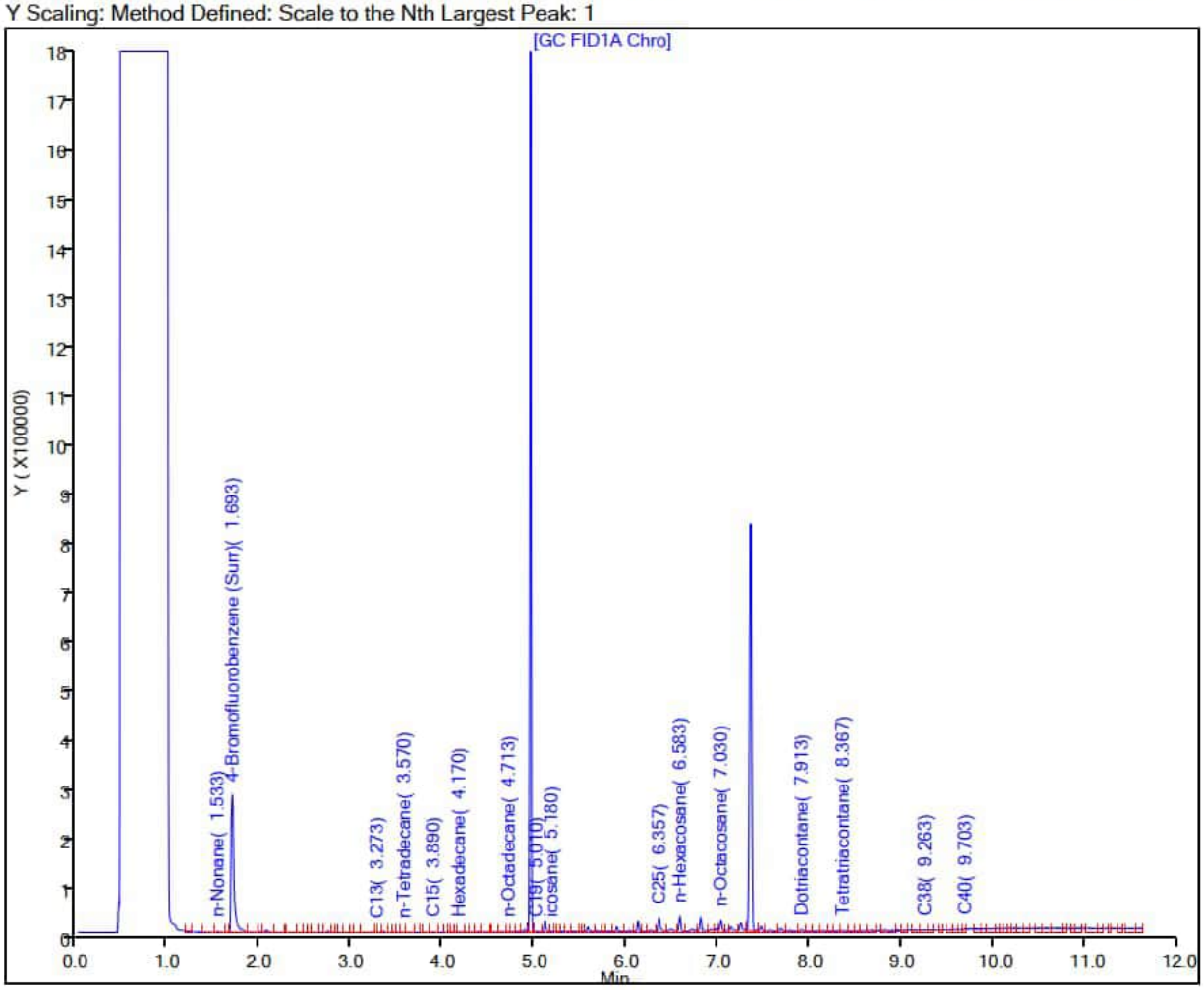
Method Blank Associated with Location: RHMW01R, RHMW03, RHMW05, RHMW11-05
Sample ID: RHMW11-05-WGN01G-2209WK4, RHMW01R-WGN01B-2209WK4, RHMW05-WGN01B-2209WK4, RHMW03-WGN01B-2209WK4
Sample Date: 9/27/22
Lab: Eurofins Seattle

Report Date: 05-Oct-2022 12:39:15 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\091522A010.D				
Injection Date:	04-Oct-2022 17:18:37	Instrument ID:	TAC129		
Lims ID:	MB 580-405743/1-B				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



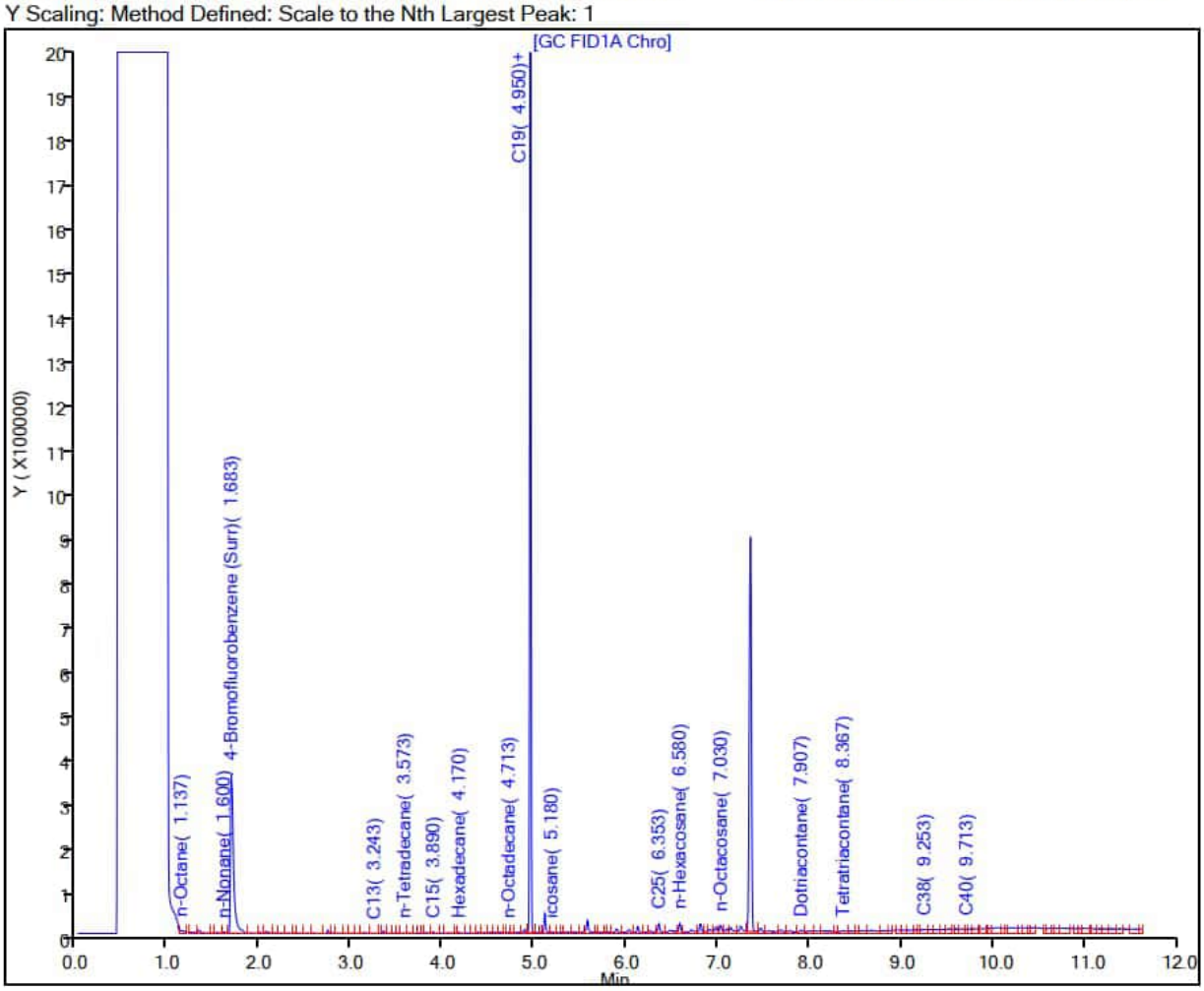
Method Blank Associated with Location: RHMW12A, RHMW16
Sample ID: RHMW16-WGN01LF-2209WK4, RHMW12A-WGN01LF-2209WK4
Sample Date: 9/27/22
Lab: Eurofins Seattle

Report Date: 03-Oct-2022 13:36:16 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220930-85132.b\093022A008.D				
Injection Date:	30-Sep-2022 20:25:29	Instrument ID:	TAC129		
Lims ID:	MB 580-405569/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



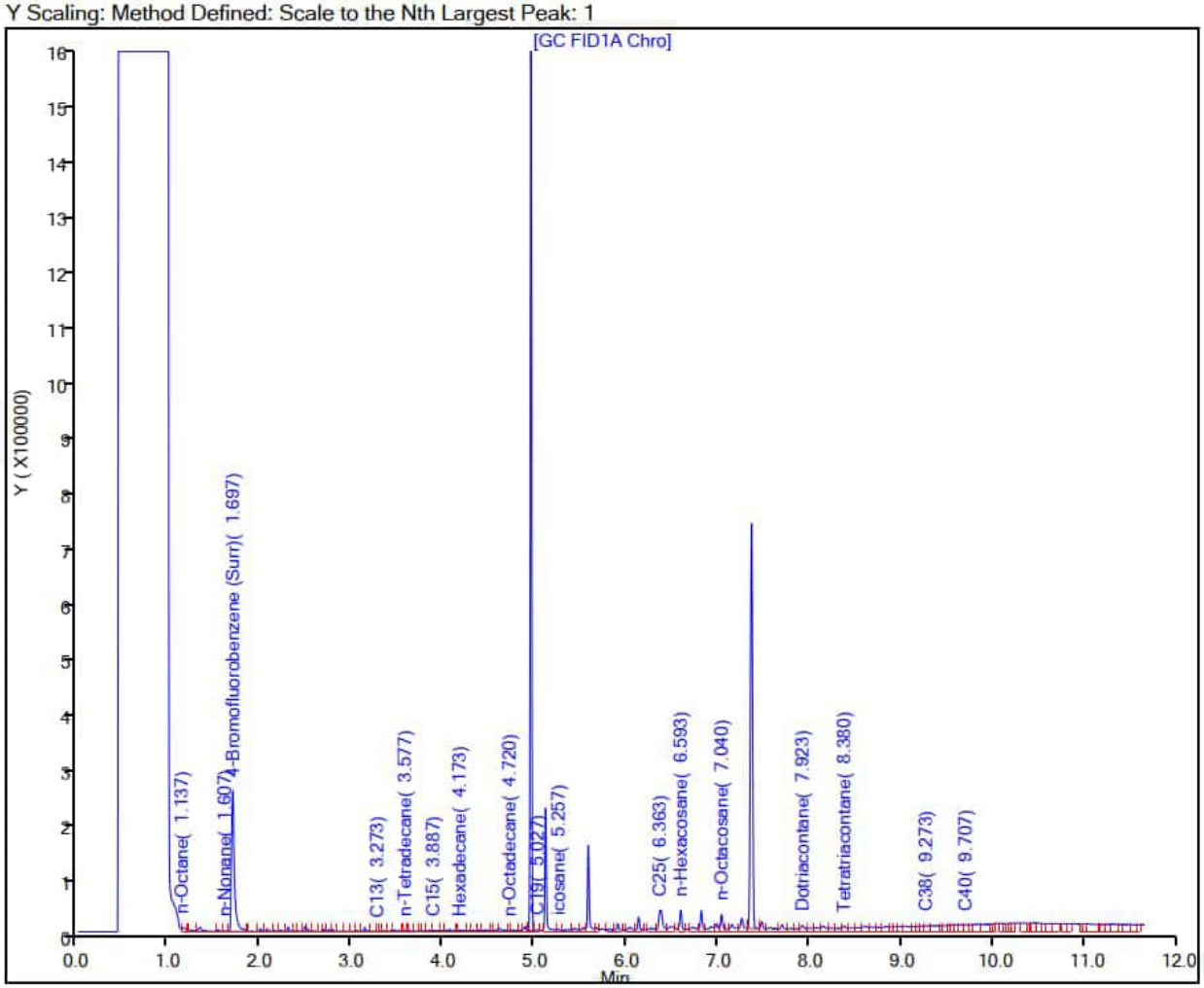
Method Blank Associated with Location: OWDFMW01
Sample ID: OWDFMW01-WGN01LF-2209WK4
Sample Date: 9/28/22
Lab: Eurofins Seattle

Report Date: 05-Oct-2022 12:39:10 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\091522A008.D				
Injection Date:	04-Oct-2022 16:59:43	Instrument ID:	TAC129		
Lims ID:	MB 580-405743/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



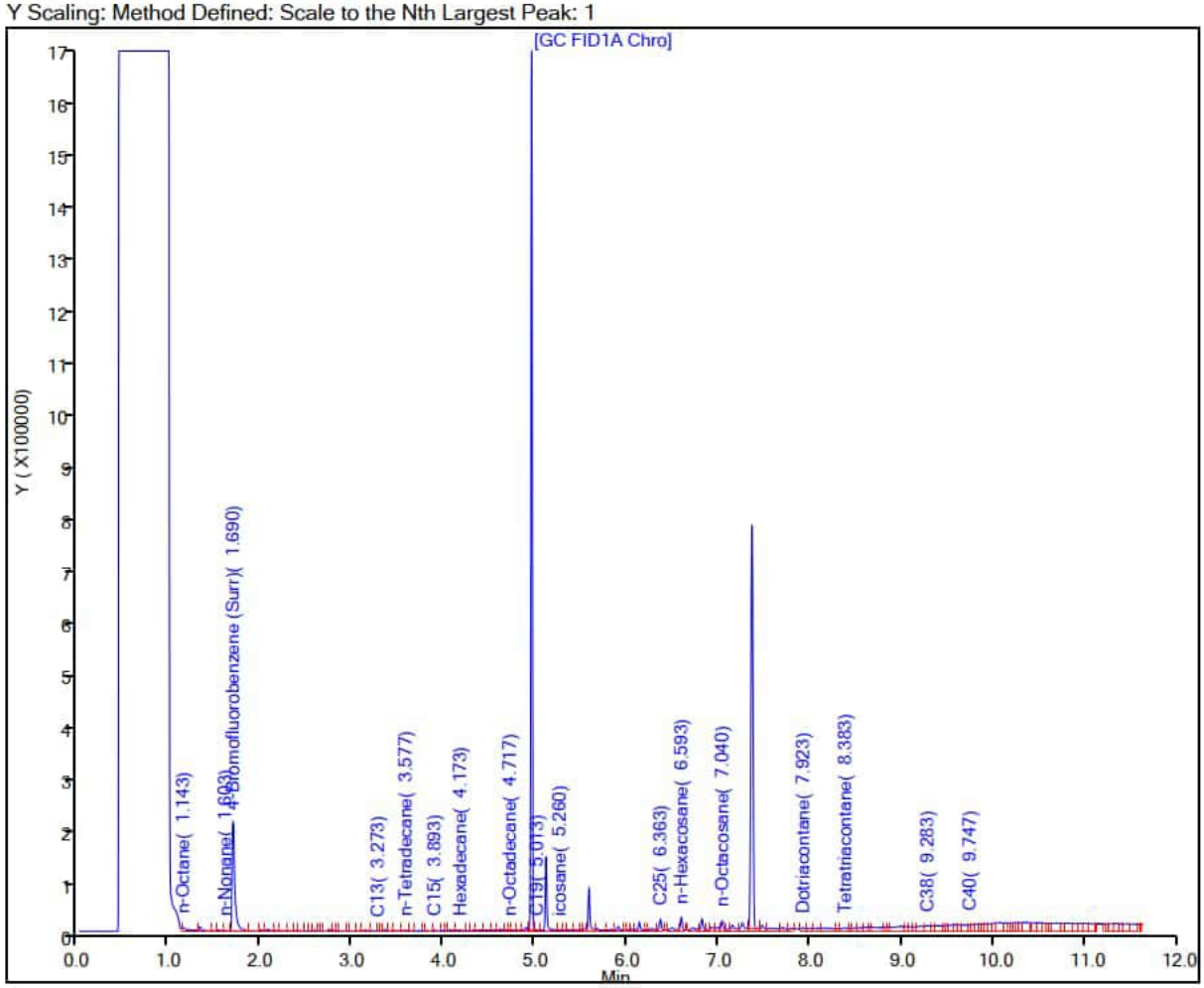
Method Blank Associated with Location: RHMW04, RHMW06, RHMW08, RHMW13-05, RHMW17
Sample ID: RHMW04-WGN01B-2209WK4, RHMW04-WGFD01B-2209WK4, RHMW13-05-WGN01G-2209WK4, RHMW06-WGN01B-2209WK4, RHMW08-WGN01B-2209WK4, RHMW17-WGN01B-2209WK4
Sample Date: 9/28/22
Lab: Eurofins Seattle

Report Date: 05-Oct-2022 12:39:37 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\1004A22A022.D				
Injection Date:	04-Oct-2022 21:22:36	Instrument ID:	TAC129		
Lims ID:	MB 580-405868/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



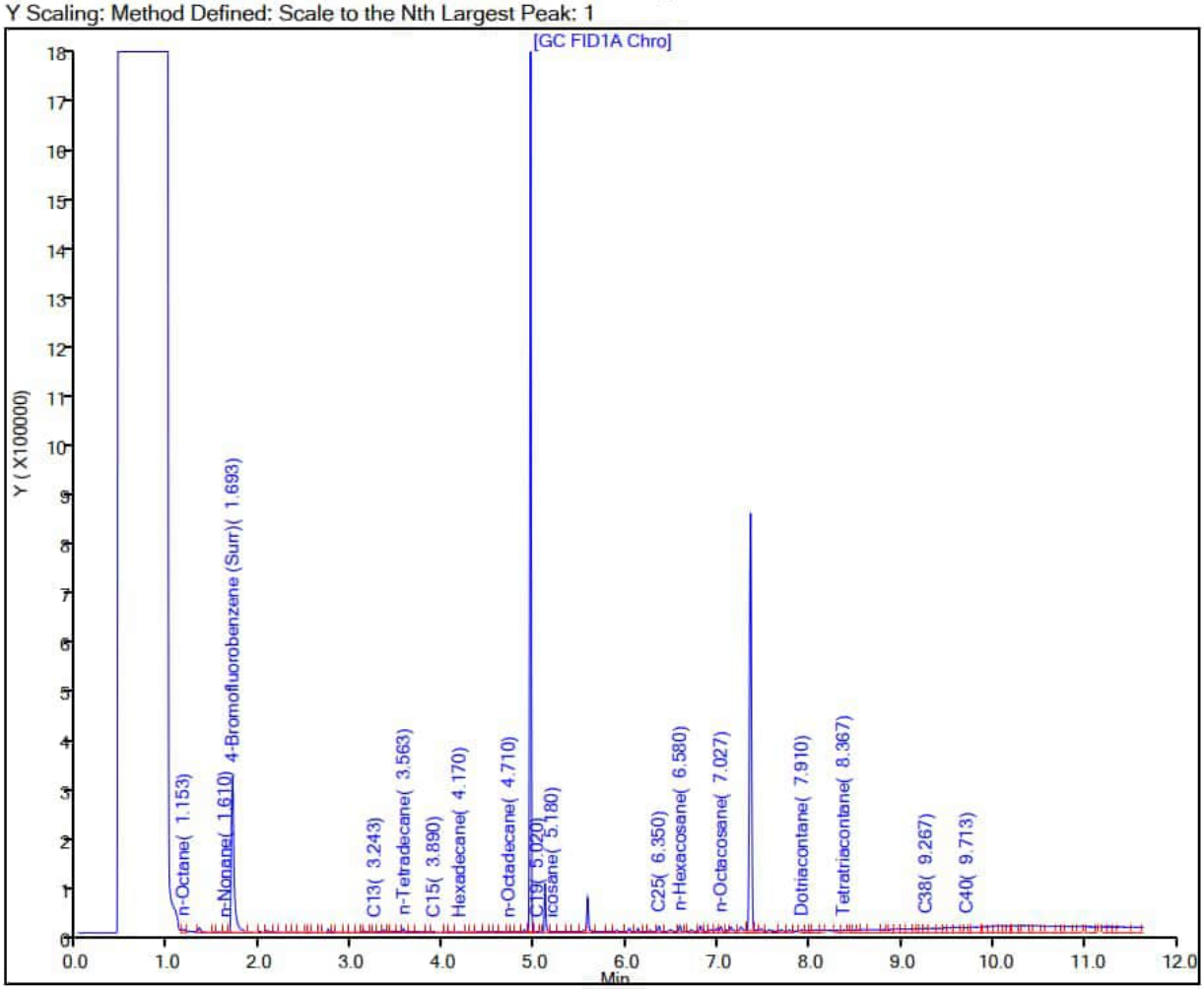
Method Blank Associated with Location: OWDFMW04A, OWDFMW05A, RHMW19
Sample ID: OWDFMW04A-WGN01LF-2210WK1, OWDFMW04A-WGFD01LF-2210WK1, OWDFMW05A-WGN01LF-2210WK1, RHMW19-WGN01B-2210WK1
Sample Date: 10/3/22
Lab: Eurofins Seattle

Report Date: 06-Oct-2022 14:29:39 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221005-85212.b\100522A008.D				
Injection Date:	05-Oct-2022 19:26:17	Instrument ID:	TAC129		
Lims ID:	MB 580-406020/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



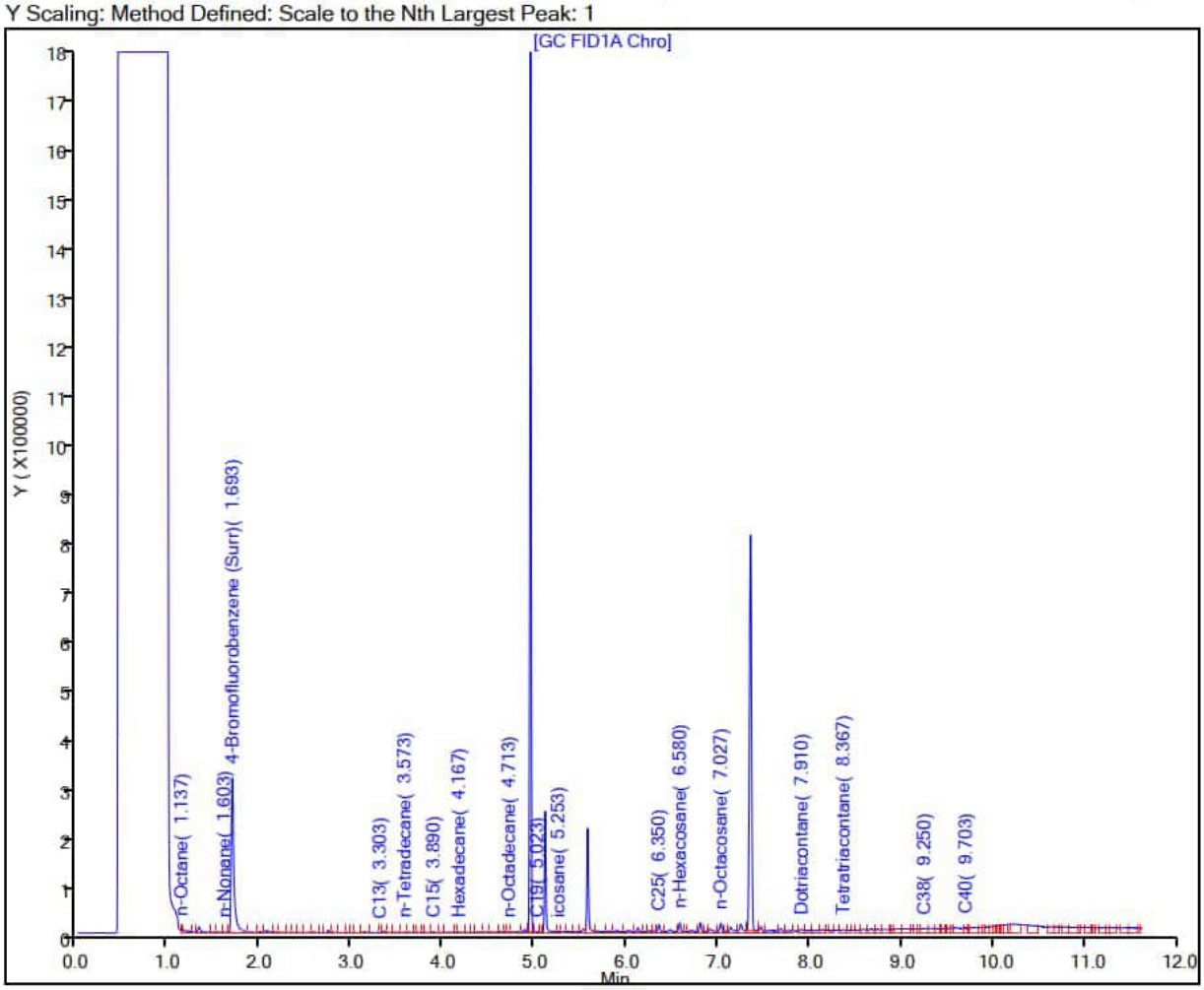
Method Blank Associated with Location: RHMW13-05
Sample ID: RHMW13-05-WGN01G-2210WK1
Sample Date: 10/6/22
Lab: Eurofins Seattle

Report Date: 12-Oct-2022 13:56:25 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

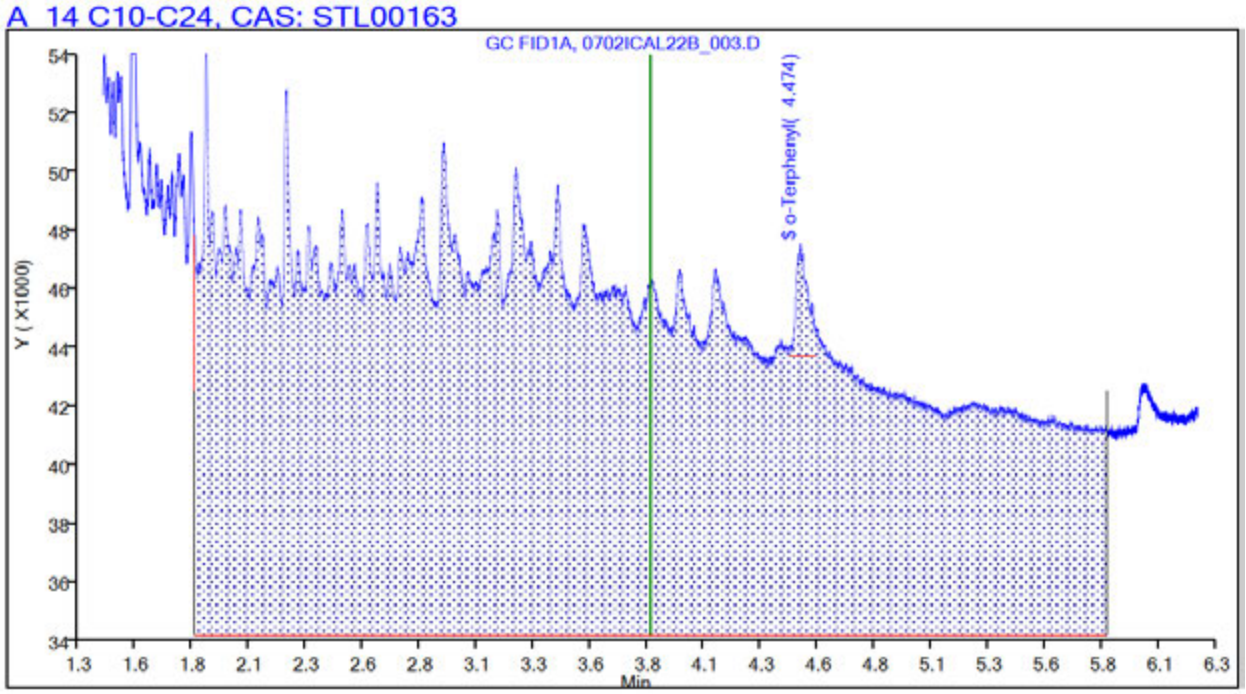
Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A022.D				
Injection Date:	11-Oct-2022 20:17:31	Instrument ID:	TAC129		
Lims ID:	MB 580-406569/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



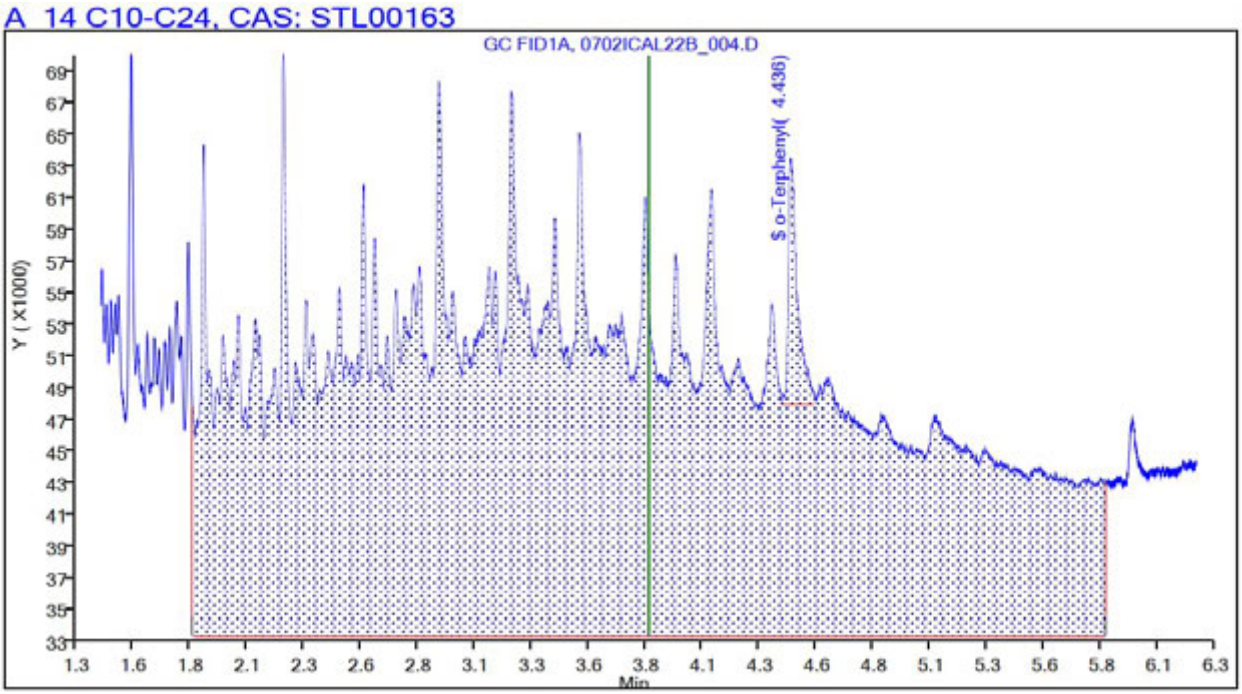
Eurofins Seattle: Initial Calibration Standard (LVL 1), TPH-d 5.00 ng/µL

7/1/22 9:57 pm, Instrument ID: TAC020, SDG: 580-116647-1



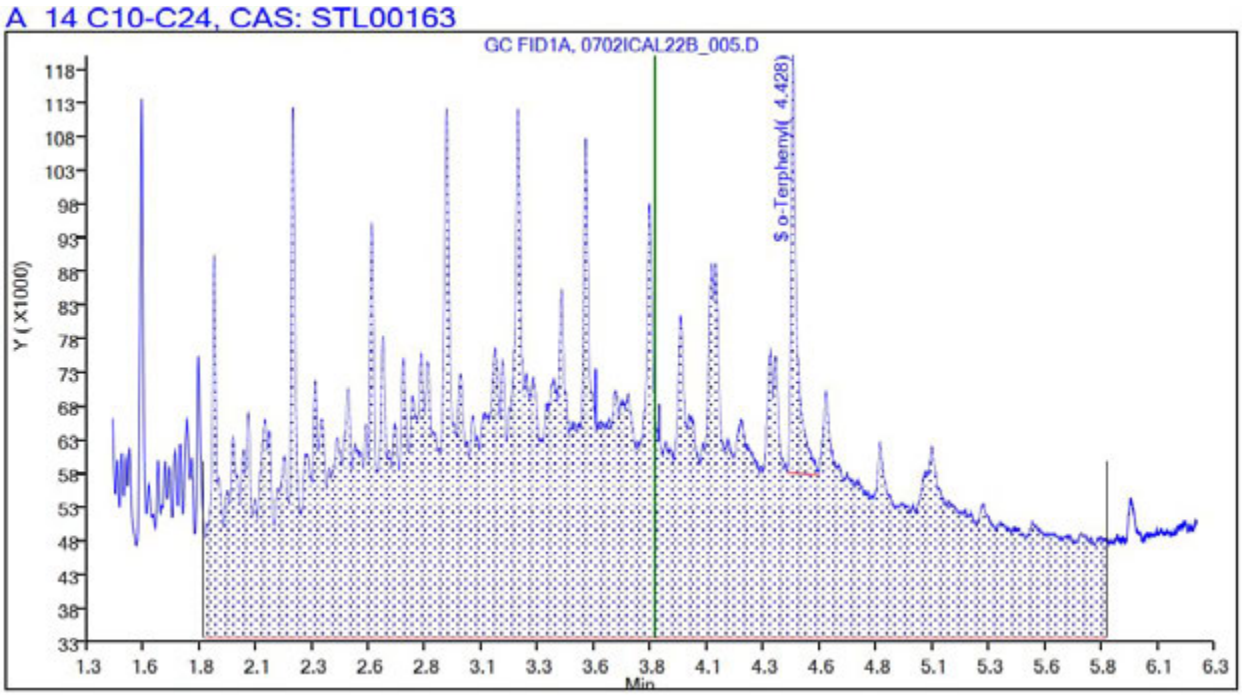
Eurofins Seattle: Initial Calibration Standard (LVL 2), TPH-d 10.0 ng/µL

7/1/22 10:17 pm, Instrument ID: TAC020, SDG: 580-116647-1



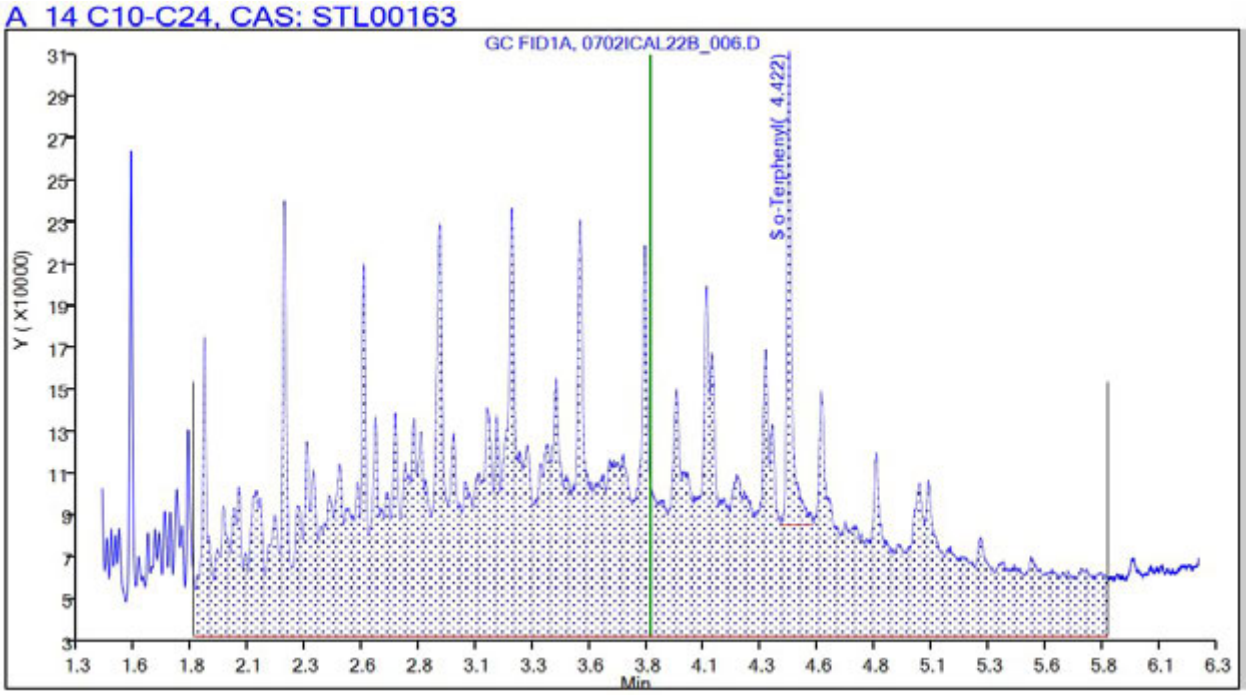
Eurofins Seattle: Initial Calibration Standard (LVL 3), TPH-d 20.0 ng/µL

7/1/22 10:37 pm, Instrument ID: TAC020, SDG: 580-116647-1



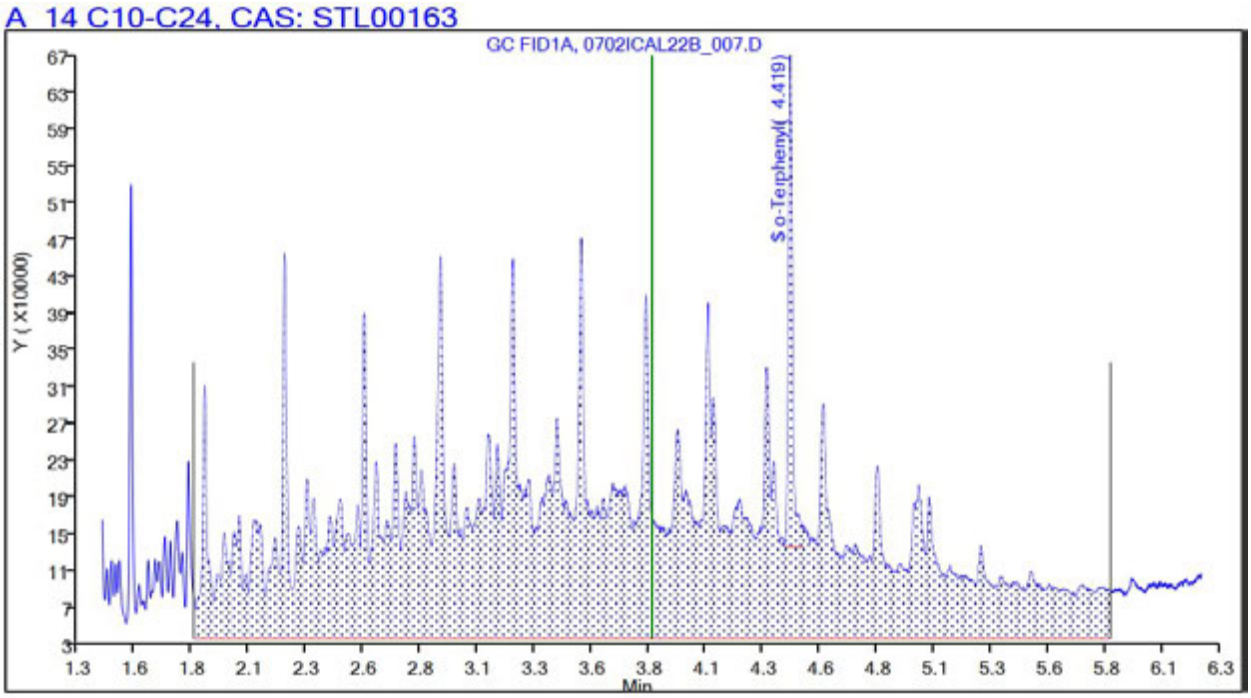
Eurofins Seattle: Initial Calibration Standard (LVL 4), TPH-d 50.0 ng/µL

7/1/22 10:57 pm, Instrument ID: TAC020, SDG: 580-116647-1



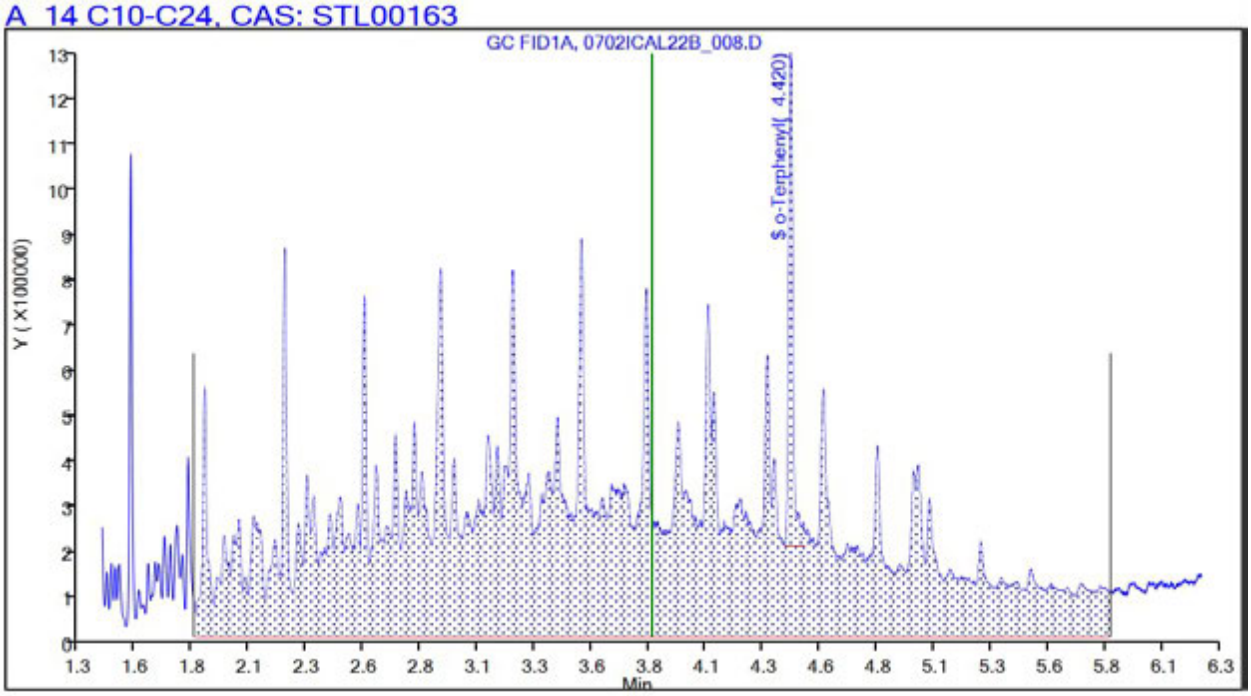
Eurofins Seattle: Initial Calibration Standard (LVL 5), TPH-d 100.0 ng/µL

7/1/22 11:17 pm, Instrument ID: TAC020, SDG: 580-116647-1



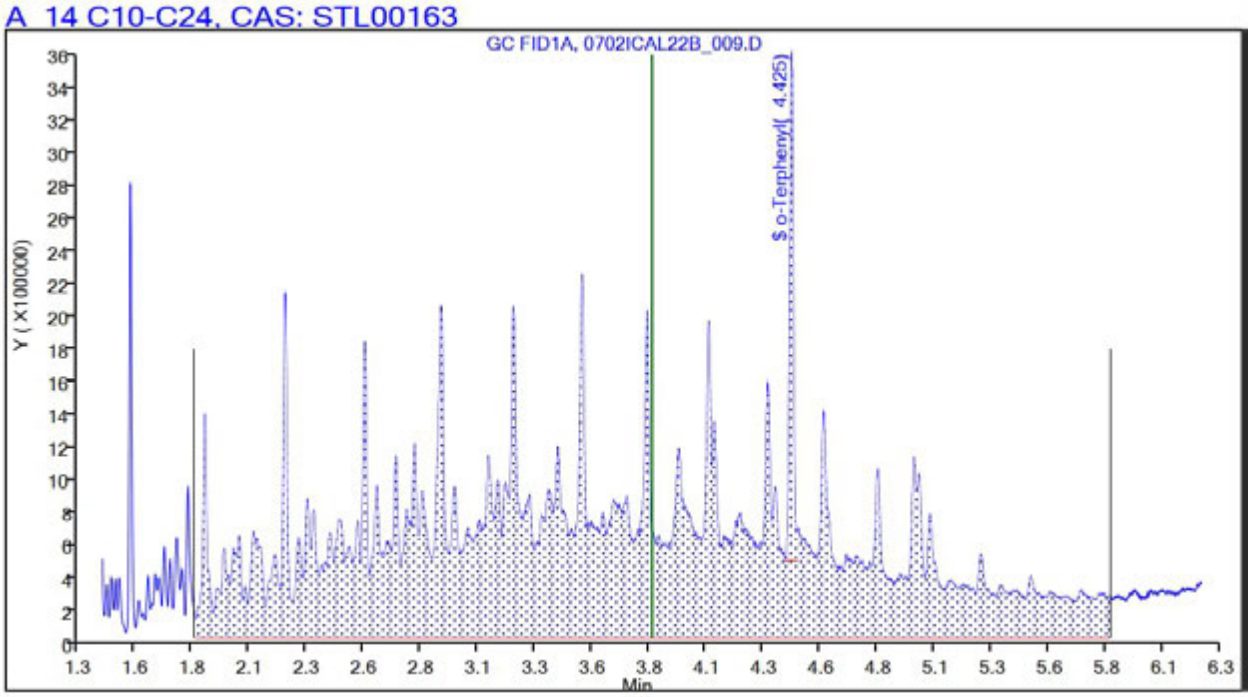
Eurofins Seattle: Initial Calibration Standard (LVL 6), TPH-d 200.0 ng/µL

7/1/22 11:37 pm, Instrument ID: TAC020, SDG: 580-116647-1



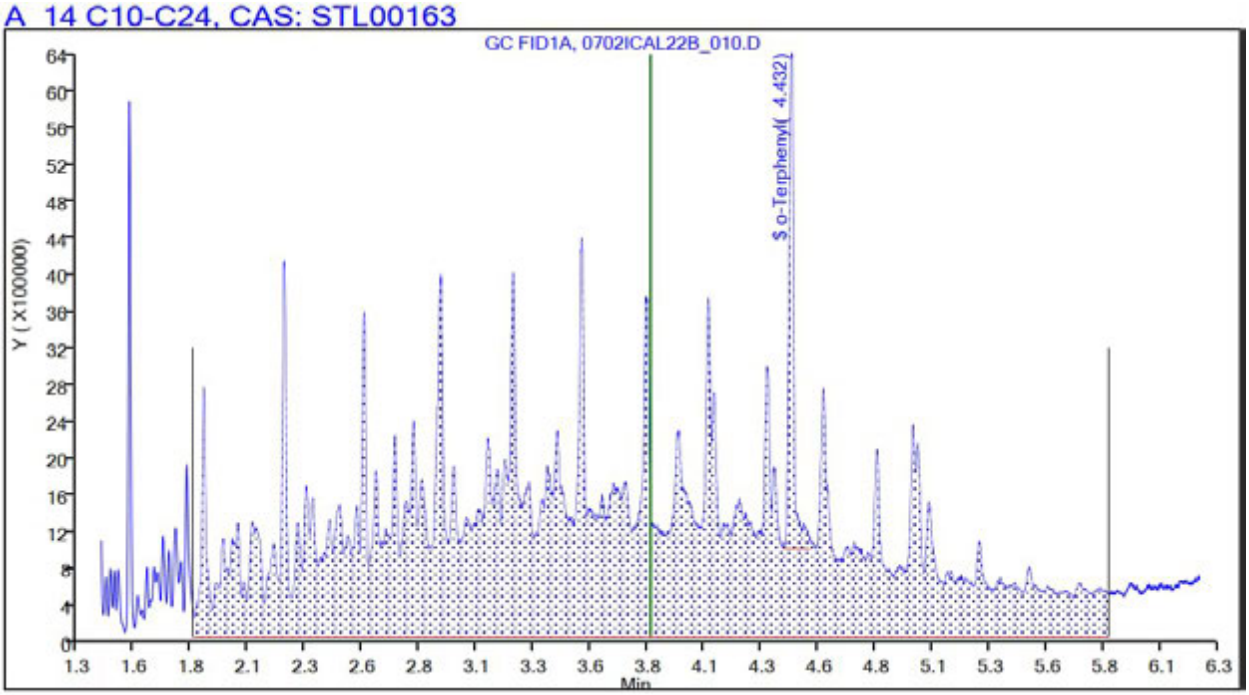
Eurofins Seattle: Initial Calibration Standard (LVL 7), TPH-d 500.0 ng/µL

7/1/22 11:37 pm, Instrument ID: TAC020, SDG: 580-116647-1



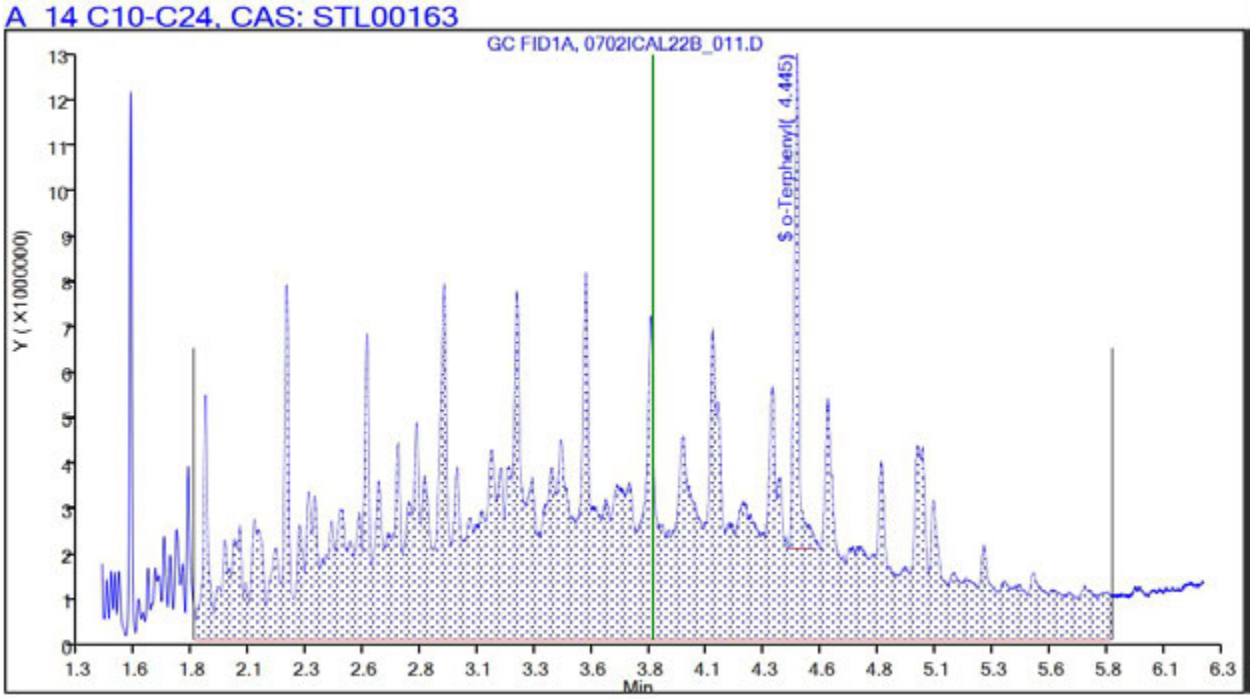
Eurofins Seattle: Initial Calibration Standard (LVL 8), TPH-d 1000.0 ng/µL

7/2/22 12:18 am, Instrument ID: TAC020, SDG: 580-116647-1



Eurofins Seattle: Initial Calibration Standard (LVL 9), TPH-d 2000.0 ng/µL

7/2/22 12:38 am, Instrument ID: TAC020, SDG: 580-116647-1



Eurofins Seattle: Initial Calibration Standard (LVL 10), TPH-d 5000.0 ng/µL

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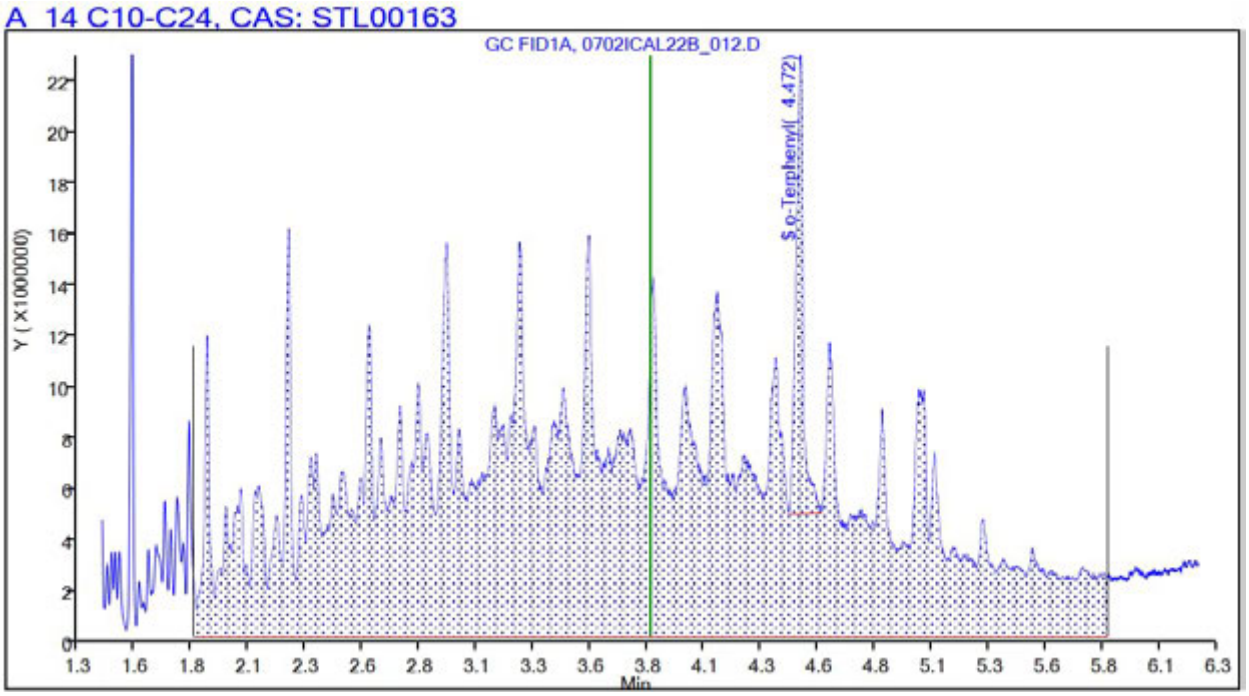

Eurofins Seattle: Initial Calibration Standard (LVL 11), TPH-d 10,000 ng/µL

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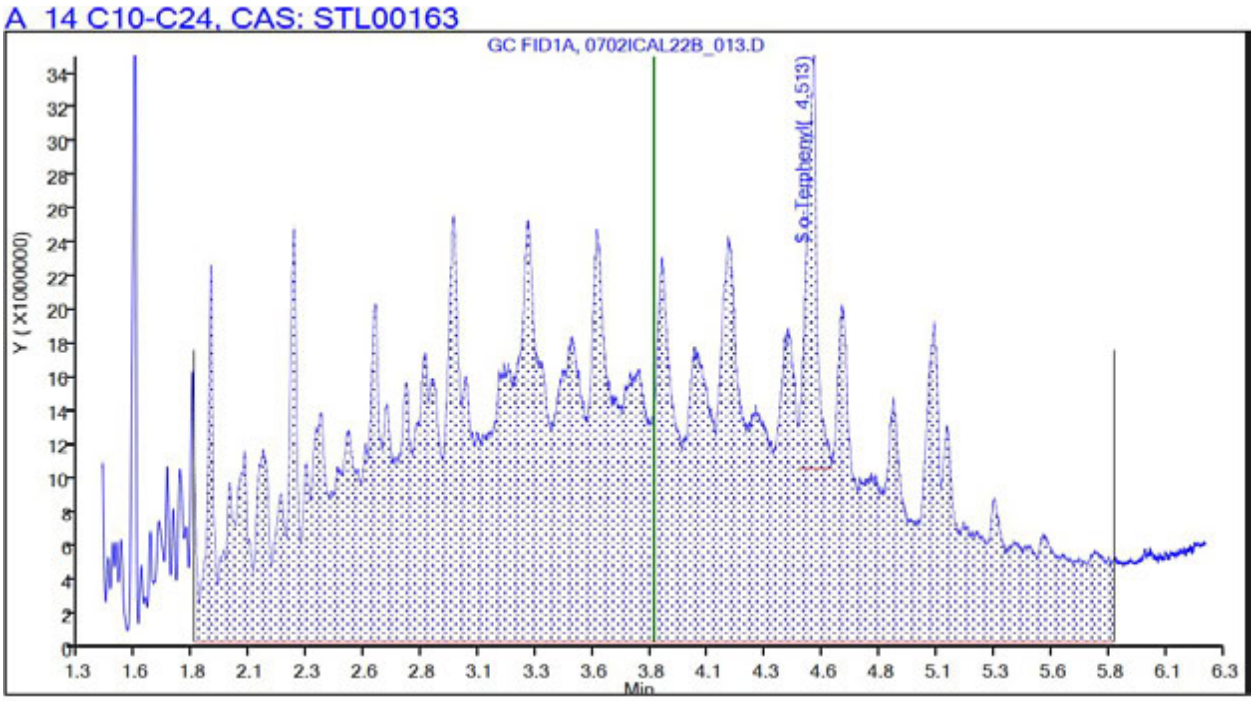

Eurofins Seattle: Initial Calibration Standard (LVL 1), TPH-o 5.00 ng/µL

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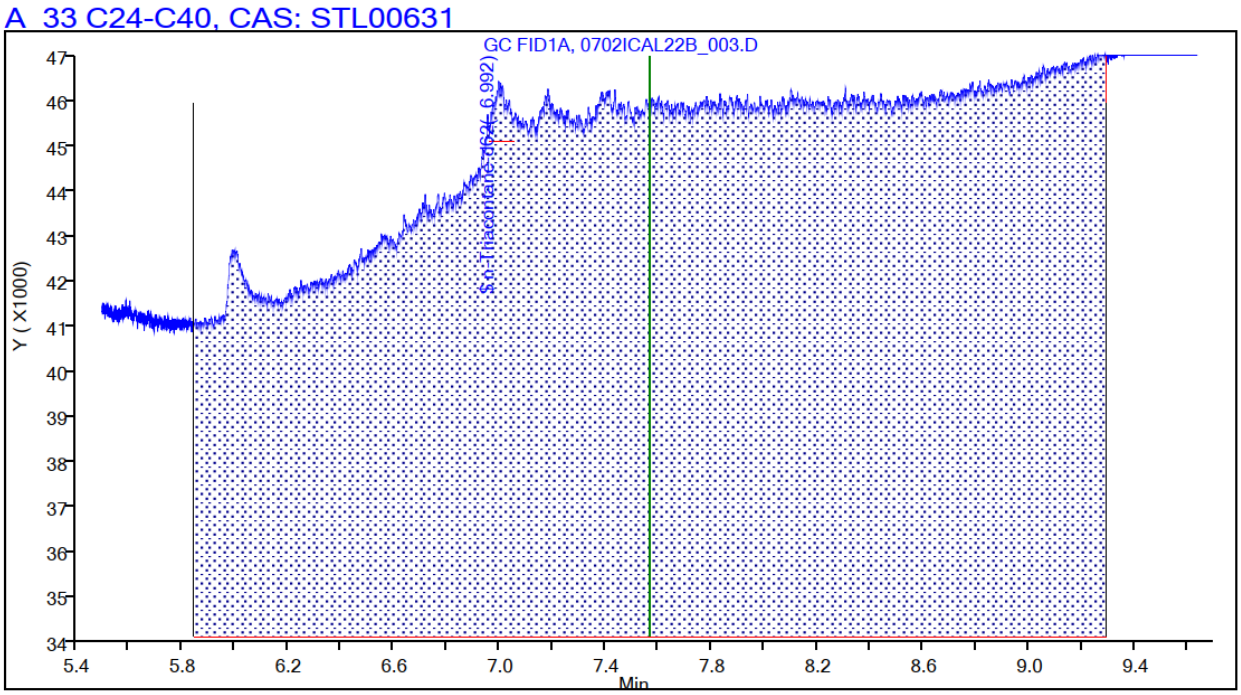

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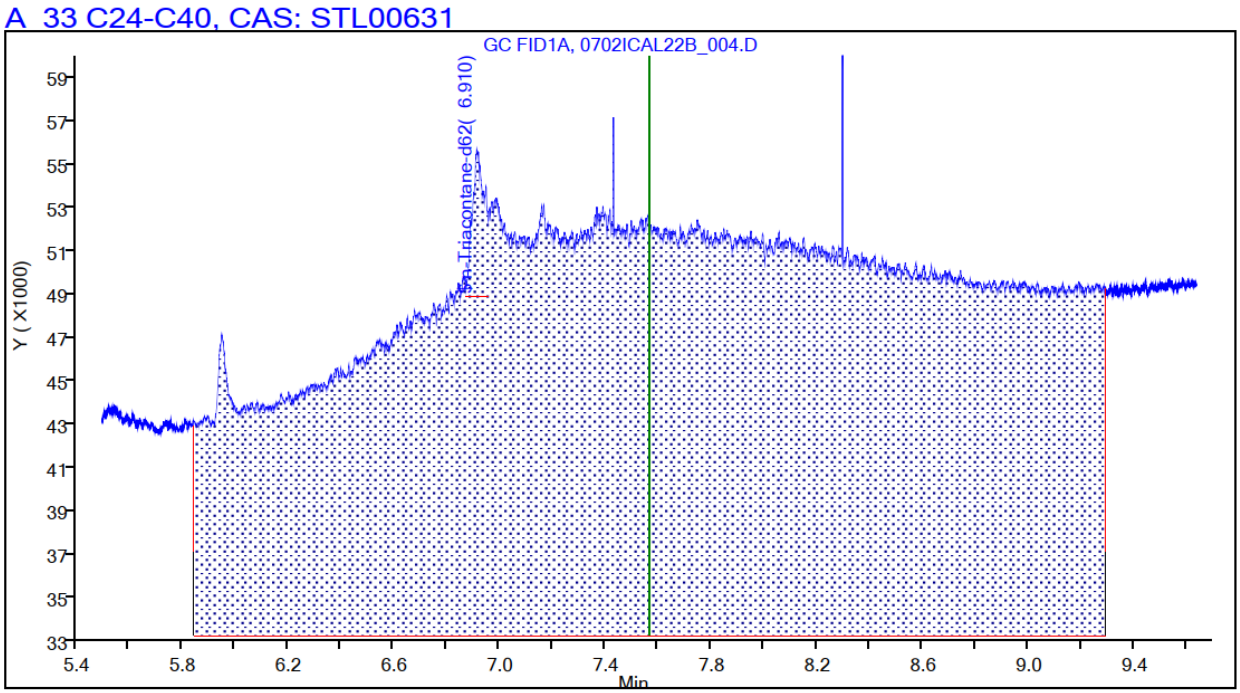

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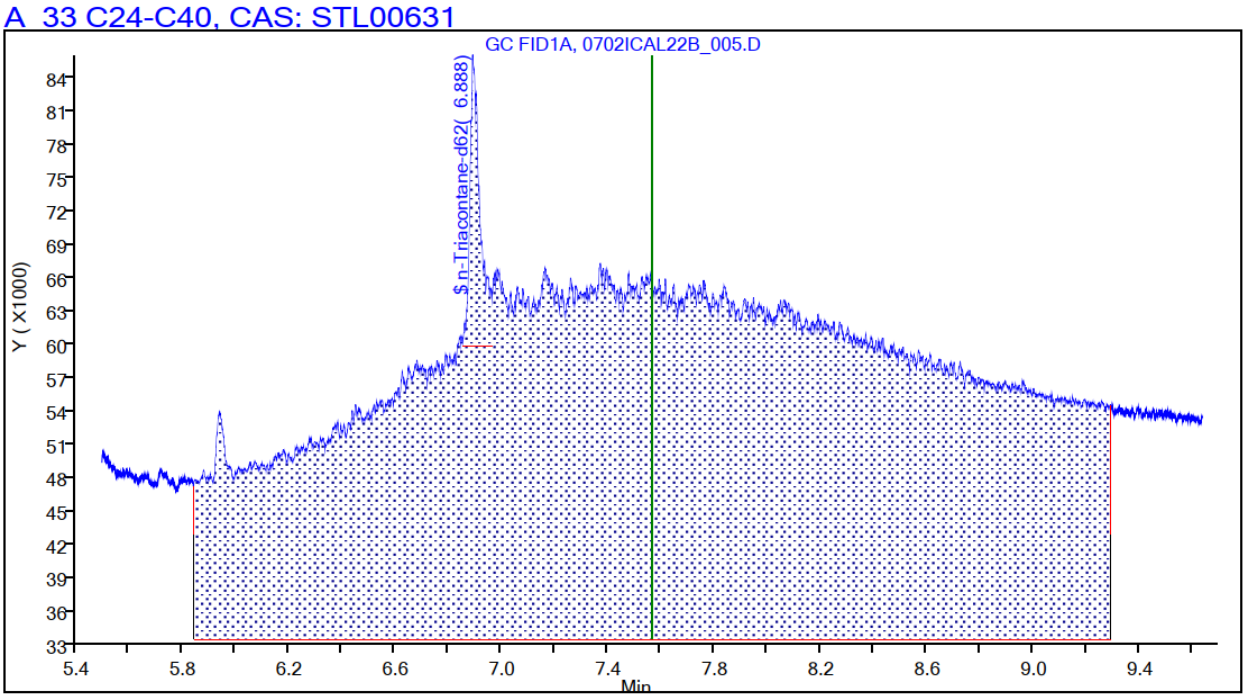

Eurofins Seattle: Initial Calibration Standard (LVL 4), TPH-o 50.0 ng/µL

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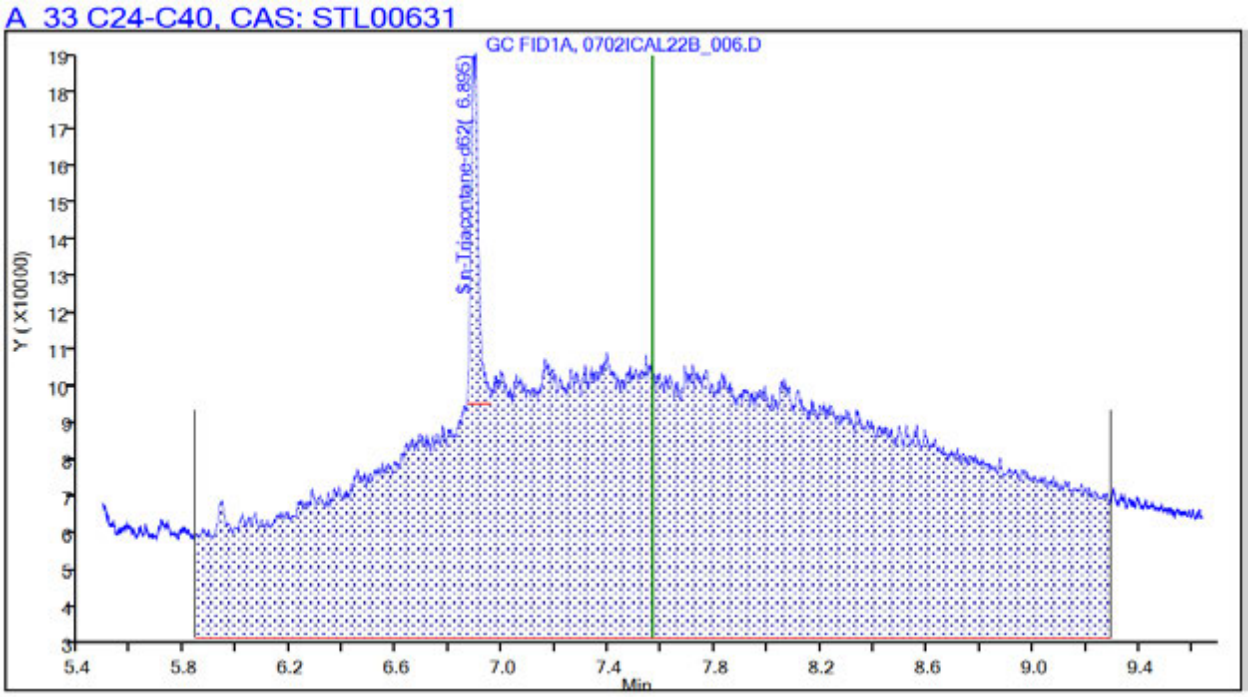
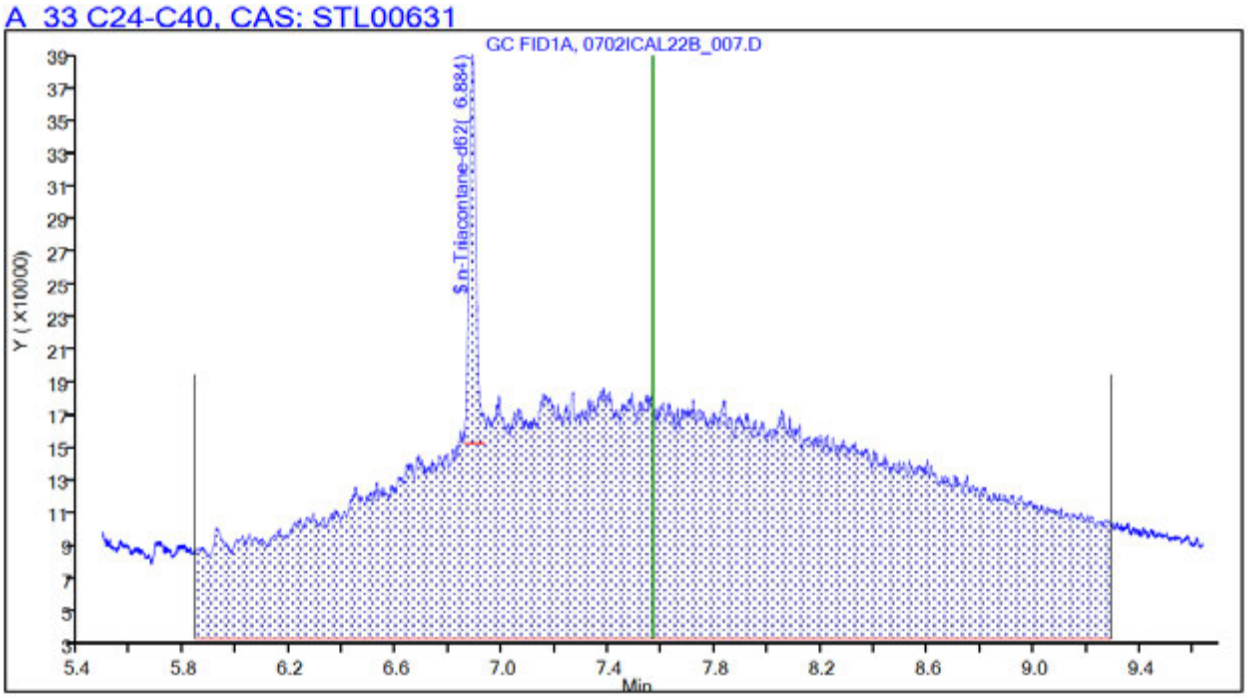


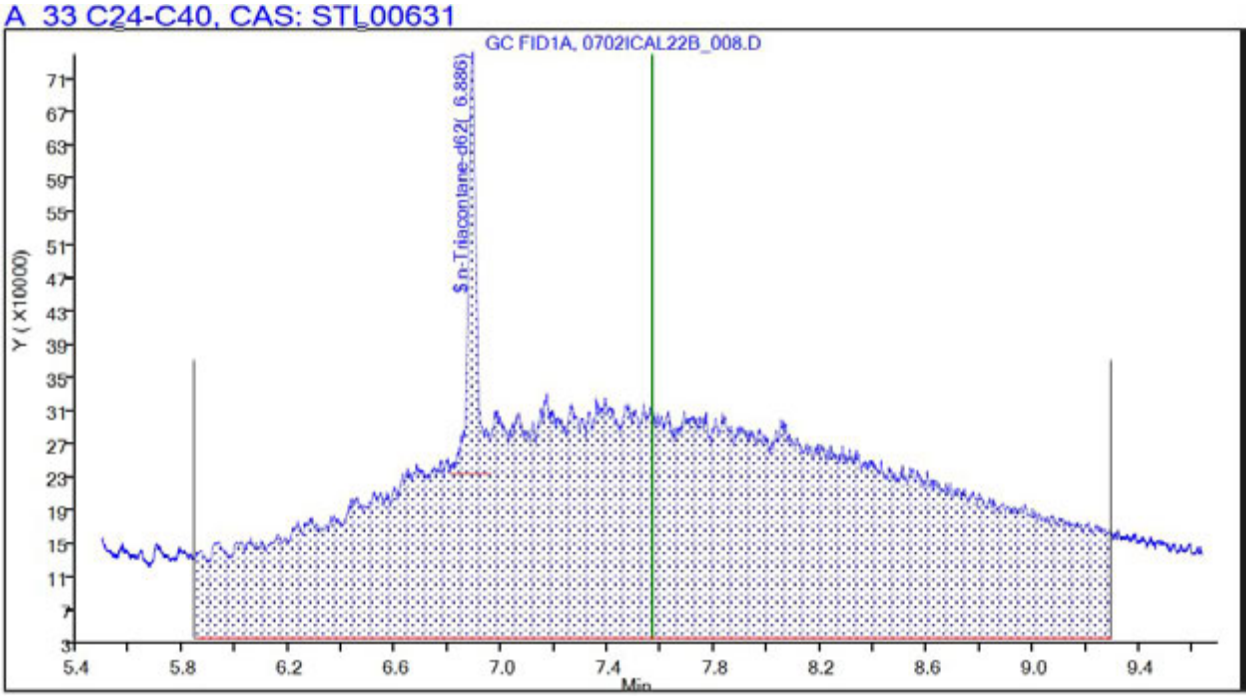
Eurofins Seattle: Initial Calibration Standard (LVL 5), TPH-o 100.0 ng/µL

7/1/22 11:17 pm, Instrument ID: TAC020, SDG: 580-116647-1



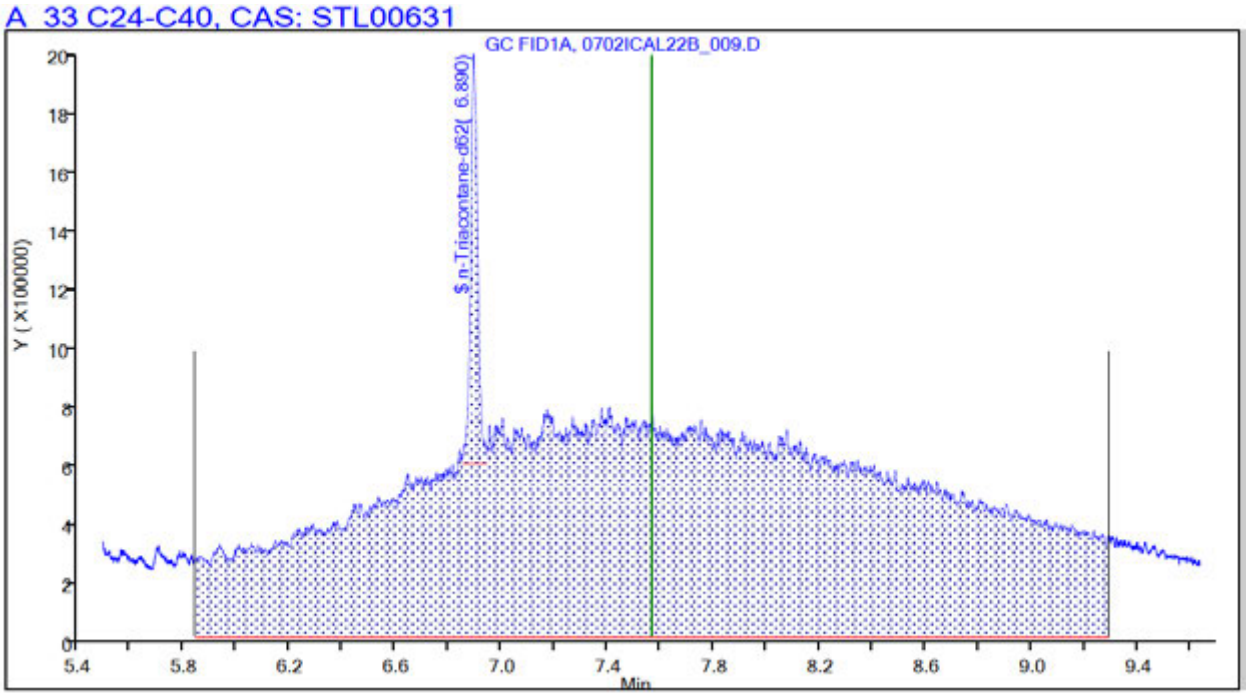
Eurofins Seattle: Initial Calibration Standard (LVL 6), TPH-o 200.0 ng/µL

7/1/22 11:37 pm, Instrument ID: TAC020, SDG: 580-116647-1



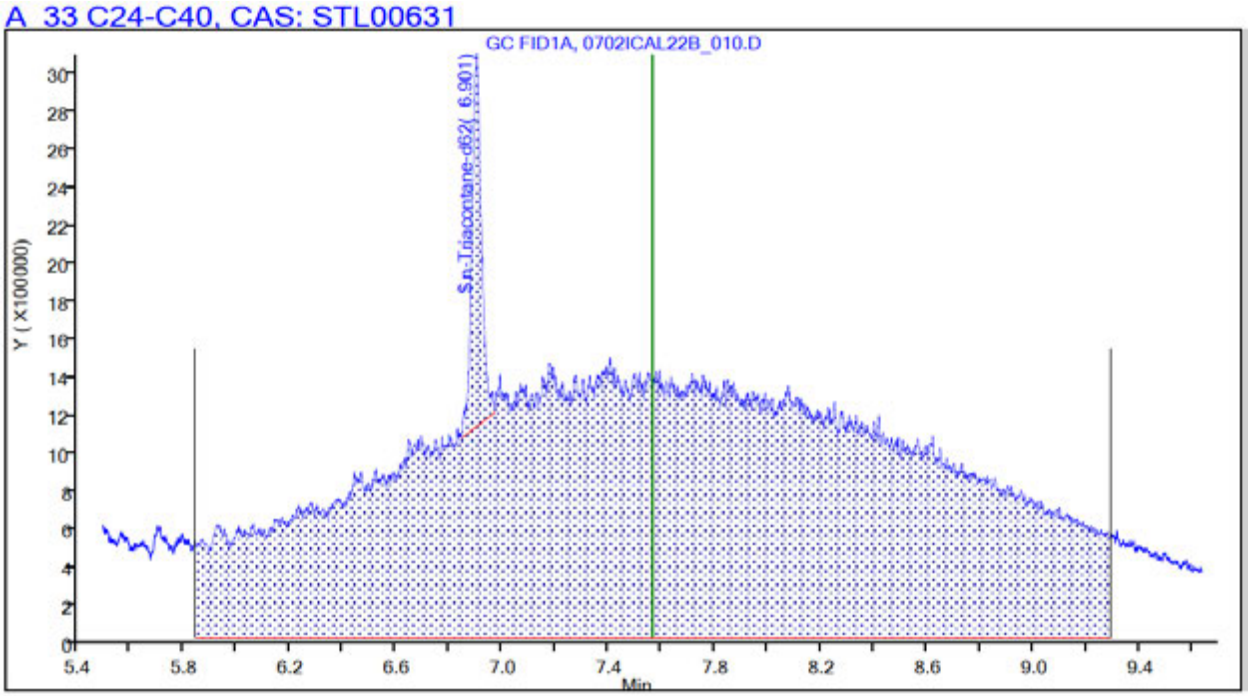
Eurofins Seattle: Initial Calibration Standard (LVL 7), TPH-o 500.0 ng/µL

7/1/22 11:37 pm, Instrument ID: TAC020, SDG: 580-116647-1



Eurofins Seattle: Initial Calibration Standard (LVL 8), TPH-o 1000.0 ng/µL

7/2/22 12:18 am, Instrument ID: TAC020, SDG: 580-116647-1



Eurofins Seattle: Initial Calibration Standard (LVL 9), TPH-o 2000.0 ng/µL

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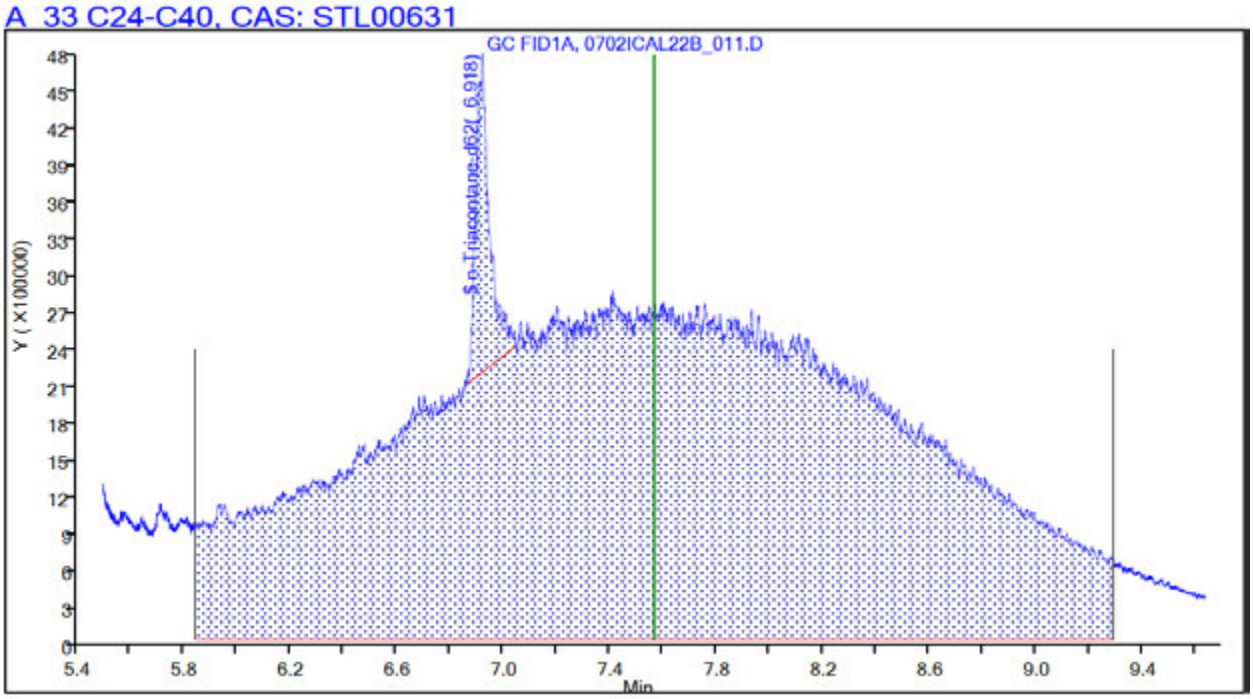
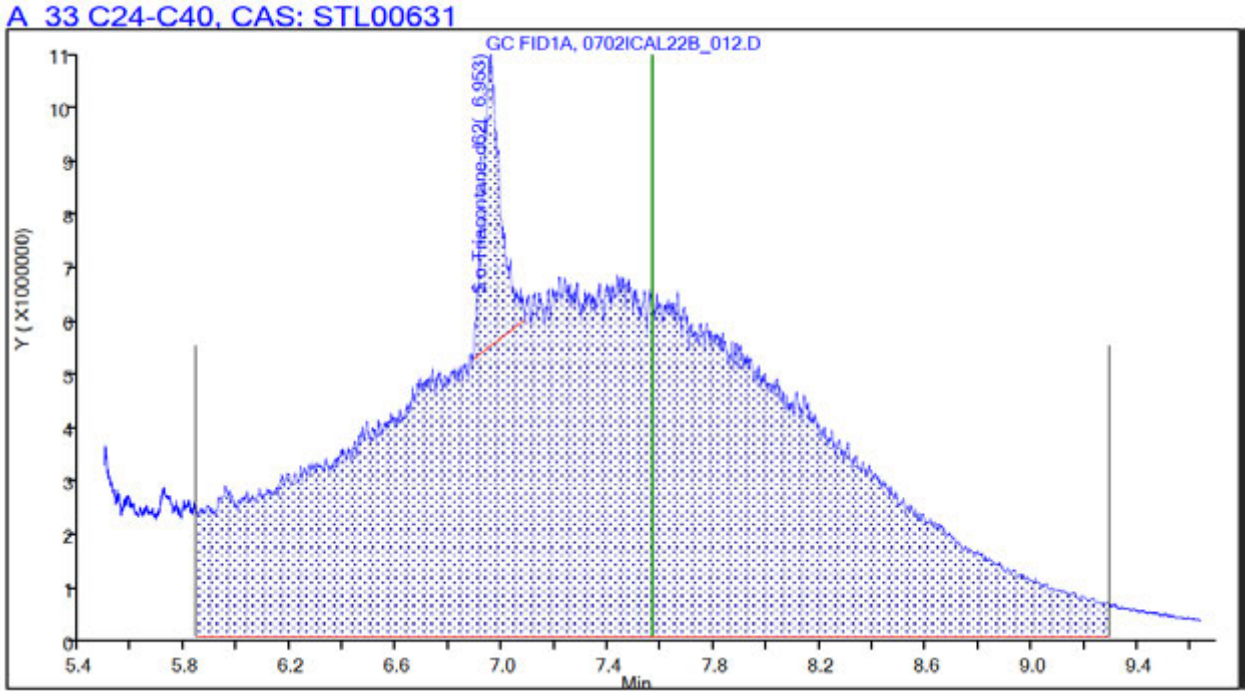


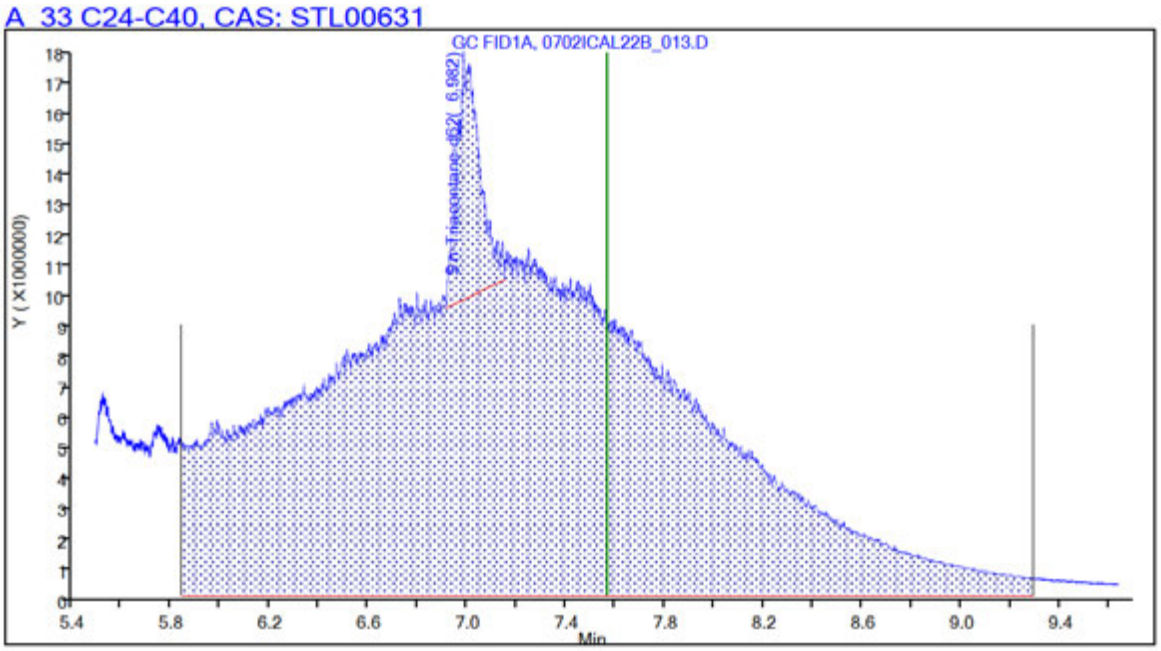
Eurofins Seattle: Initial Calibration Standard (LVL 10), TPH-o 5000.0 ng/µL

7/2/22 12:58 am, Instrument ID: TAC020, SDG: 580-116647-1



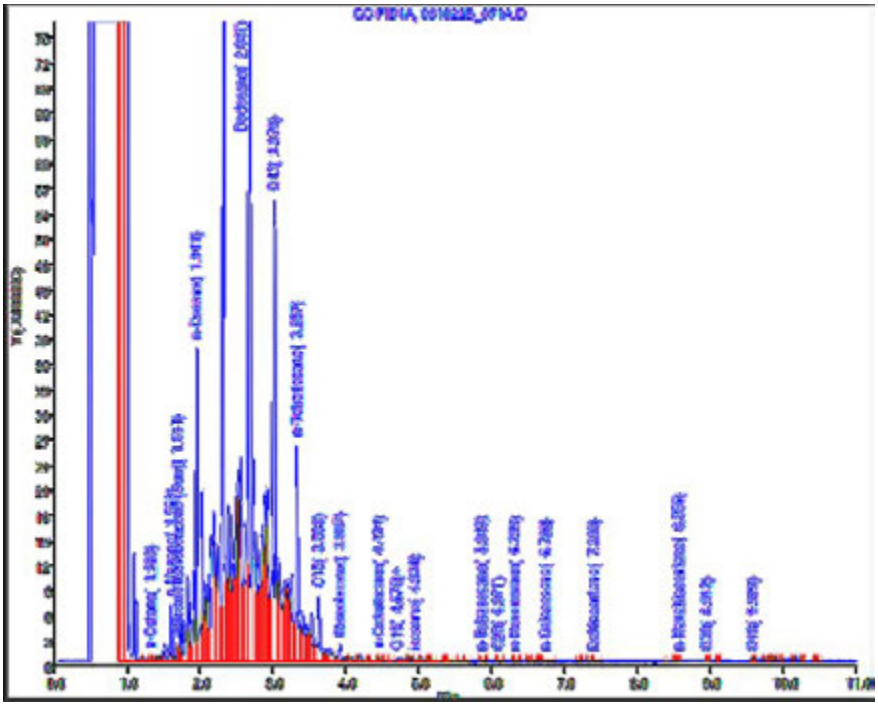
Eurofins Seattle: Initial Calibration Standard (LVL 11), TPH-o 10,000 ng/µL

7/2/22 1:18 am, Instrument ID: TAC020, SDG: 580-116647-1



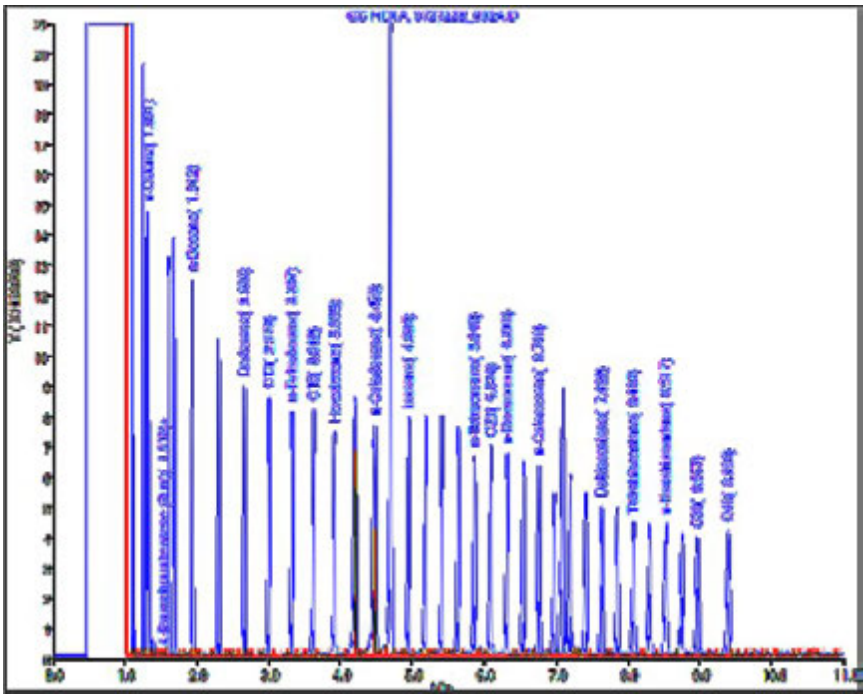
Eurofins Seattle: JP-5 Standard

8/10/22 6:32 pm, Instrument ID: TAC020, SDG: 580-116647-1



Eurofins Seattle: Alkane Marker

8/10/22 12:10 am, Instrument ID: TAC020, SDG: 580-116647-1



Appendix B.6 – NOI Groundwater Sampling Plan

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Appendix E Groundwater Sampling Plan
Revised December 27, 2021

The objective of the following Groundwater Sampling Plan is to obtain an assessment of groundwater impacts from the May 6 and November 20, 2021 release events, as well as evidence of recent mobilization of earlier fuel spills remaining in the vadose zone. Based on data obtained and additional work to identify nature and extent of the fuel releases on the environment, the scope and frequency of data collection may change. In addition, the groundwater sampling program may eventually be utilized to evaluate the effectiveness of contaminant containment or as a possible indicator of potential impact on Red Hill Shaft during pumping. Effective the week (December 13-17, 2021), the Navy's groundwater sampling plan shall at a minimum consist of:

1. Collect the samples noted on Tables 1, 2 and 3. HDOH or an HDOH contractor shall be afforded an opportunity to be present to observe, and elect on a well by well basis to obtain, handle, and ship the split sample to the HDOH contracted laboratory for analysis;
2. Provide the results in an extractable laboratory database format with an updated cumulative groundwater results spreadsheet in excel format;
3. Have the laboratories provide EDD files and all chromatograms in electronic format of the ASCII files (including a PDF format copy). This includes results from the May 6th release, long term monitoring data, and the Nov 20th release incidents;
4. Provide all the field logs in excel spreadsheet of the Groundwater (GW) monitoring at mentioned wells, since the May 6th release incidence through present and beyond (e.g., Redox Parameters, pH, Total Dissolved Solids (TDS), Oxidation Reduction Potential (ORP), etc.);
5. Provide all the field logs in excel spreadsheet of the Soil Vapor monitoring activities, since the My 6th release incidence through present and beyond;
6. In addition to groundwater samples, provide free product gauging using a bailer and headspace measurements using a photo-ionization detector (PID) for all locations; and
7. Provide fuel fingerprinting for:
    a. Fuel from the Nov 20th release and a sample collected from RHMW2254-01 on December 2, 2021.
    b. The three (3) different fuel types used at Red Hill obtained in response to the Hotel Pier release.
    c. The Fuel Analysis of Free Product mentioned in Table 2 will be analyzed only once.

Please see *Table 1* for the for the Groundwater Sampling Plan, *Table 2* for the Groundwater Parameters and *Table 3* for the Soil Vapor Monitoring and Summa Cannister Sampling.

Appendix E Groundwater Sampling Plan
Revised December 27, 2021

Table 1. Groundwater Sampling Plan

Sample type	Incidence date	Locations	Collection Method	Frequency of sampling	Duration of sampling	Analytes	Reporting Turn Around Time (TAT)
Ground-water	Nov 20th (14 GW wells with 1 Sump and 1 AFFF tank)	RHMW05 RHMW08 RHMW06 RHMW09 RHMW12 RHMW12-A RHMW17 *(when complete)* RHMW16 OWDFMW01	Bailer: RHMW04 RHMW05 RHMW06 RHMW08 RHMW09 RHMW19 Low Flow pump: RHMW12-A RHMW17 (*when complete*) RHMW16 OWDFMW01 Additional four OWDFMW wells*	Weekly	2 months	See Table 2	7 days
		RHMW2254-01 *(2 samples)*	Bailer & Low flow dedicated pump (both)	Weekly	2 months		
		RHMW11 (Zone 5) RHMW13 (Zone 5) RHMW 14 (Zone 3) RHMW15 (Zone 5)	Low flow (Westbay sampling method) Headspace/FP check will be taken after every sample collection)	Weekly	2 months		

	One time groundwater analysis of water portion from the:	**Infiltration Groundwater Sump****	**If additional water enters the sump, sampling to restart and continue weekly instead of a one-time sample**				
		Waste in AFFF tank	**One time**				
	May 6th	**RHMW01R, RHMW02, RHMW03**	**Bailer**	**Weekly**	**2 months**		

*Navy request to include 4 new wells at the OWDF to the GW sampling is approved. DOH reserves right to adjust specific wells selected within two weeks of receiving the monitoring well installation records and field notes.

**The Infiltration Groundwater Sump was sampled by the Navy on November 24, 2021, and these results, once received, will meet the one-time requirement of the sampling plan. If additional water enters the sump, we are asking for weekly sampling instead of a one-time sample.

Table 2: Groundwater Parameters (Analytes): Analyze all the analytes mentioned in the "Table 1. Tier 1 Screening Levels for Groundwater" mentioned in Hawaii Administrative Rules, Section 11-280.1 Subchapter 6: Release Response Action. (§11-280.1-65.3 Site cleanup criteria). In addition, add the following analytes:

Parameters	Analytical method	Analytes	HDOH-EALs (ug/L)	Lab Limits
Total Petroleum Hydrocarbons (TPH) -gasoline range organics (g), diesel range organics (d), or oil range organics (o)	**EPA 8260**	**TPH-g**	**300**	**Requests for the Lab:** 1. Please provide appropriate Limit of Quantitation (LOQ), Limit of Detection (LOD), Method Detection Limit (MDL) for each method. 2. Please ensure MDLs will detect for chemicals with
	EPA 8015	**TPH-d**	**400**	
		TPH-g	**300**	
		TPH-o	**500**	
TPH with Silicon Gel Cleanup (SGC) (TPH-d and TPH-o with SGC would only be analyzed in samples with positive detections of TPH-d and TPH-o without SGC).	**EPA 3630 / 8015**	**TPH-d**		
		TPH-o		
VOC (Full suite) against appropriate HDOH-EALs Including BTEX	**EPA 8260 (full suite)**			

Parameters	Analytical method	Analytes	HDOH-EALs (ug/L)	Lab Limits
				low level EALs (e.g. Benzo-a-Pyrene).
SVOC (Full suite) against appropriate HDOH-EALs Including naphthalene, 1-methylnaphthalene, 2-methylnaphthalene	**EPA 8270 SIM (full suite)**			
One time Fuel Analysis of Free Product from the: **(1) RHMW2254-01** **(2) Waste in the AFFF tank** **(3) Infiltration Groundwater Sump where fuel was collected***	**EPA 8015 B**			**Sample the waste in the AFFF tank if the waste is still representative of what was pumped from the Nov 20th release.**
Total Organic Carbon	**EPA 9060A**			
Methane	**RSK 175 M**			
PFAS	**EPA 537.1 or** **EPA 1633 (draft) ****			**from RHMW2254 -01. Only one time analysis is requested.**
Lead Scavengers (1—dibromomethane and 1-2 dichloroethane)	**EPA 8011 and EPA 8260**			

** Run EPA draft method 1633 for matrices other than drinking water on the groundwater sample from RHMW2254-01. HDOH acknowledges that laboratories are likely not accredited for this new method.

Table 3. Soil Vapor Monitoring and Summa Canister Sampling

SAMPLE TYPE	METHOD	LOCATIONS	FREQUENCY/DURATION
Soil Vapor Concentrations	Photo-ionization Detector (PID)	All SV probe locations including new probes installed since 11/20/21. Include background reading at each tank	Once per week for 2 months Field note images delivered to DOH within 12 hours of collection and data tables listing ongoing results displayed within 7 days.
Summa Canister Samples	TO-15 & TO-3 w/ C5-C12	SVMP with highest PID readings (e.g., SV15S, SV17S, SV18S, SV20M) and most outer bound probe under the same tanks (SV15D, SV17D, SV18D, SV20D)	Once per month for 6 months.
	TO-15 & TO-3 w/ C5-C12	Collect one round of SVMP samples in the lower tunnel near station 400 and other SVMPs to fingerprint fuel signature	Consider future SVMP summa samples to evaluate migration of other older releases.

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Appendix C – Index of Soil Vapor Analytical Data

Files listed in this appendix are available for download from the JBPHH Red Hill Bulk Fuel Storage Environmental Data Management System (EDMS) at https://synectics.net.

- Laboratory Report, SDG 465724, Level 4
- Laboratory Report, SDG 467601, Level 4
- Laboratory Report, SDG 469124, Level 4

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Appendix D – Index of Groundwater Analytical Data

Files listed in this appendix are available for download from the JBPHH Red Hill Bulk Fuel Storage Environmental Data Management System (EDMS) at https://synectics.net.

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Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
Week of 2022-08-07 to 2022-08-13								
RHMW02	RHMW02-WGN01B-2208WK2	580-116809-1	2022-08-09	5801168091_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-116809-1 Level 2, Revision 3	Laboratory Report, SDG 580-116809-1 Level 4, Revision 4	Data Validation Report Level 2B SDG 580-116809-1REV
RHMW05	RHMW05-WGN01B-2208WK2	580-116809-1	2022-08-09	5801168091_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-116809-1 Level 2, Revision 3	Laboratory Report, SDG 580-116809-1 Level 4, Revision 4	Data Validation Report Level 2B SDG 580-116809-1REV
RHMW12A	RHMW12A-WGN01LF-2208WK2	580-116809-1	2022-08-09	5801168091_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-116809-1 Level 2, Revision 3	Laboratory Report, SDG 580-116809-1 Level 4, Revision 4	Data Validation Report Level 2B SDG 580-116809-1REV
RHMW16	RHMW16-WGN01LF-2208WK2	508-116809-1	2022-08-09	5801168091_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-116809-1 Level 2, Revision 3	Laboratory Report, SDG 580-116809-1 Level 4, Revision 4	Data Validation Report Level 2B SDG 580-116809-1REV
OWDFMW01	OWDFMW01-WGN01LF-2208WK2	580-116857-1	2022-08-10	5801168571_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116857-1, Level 2	Laboratory Report, SDG 580-116857-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116857-1
RHMW04	RHMW04-WGFD01B-2208WK2	580-116857-1	2022-08-10	5801168571_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116857-1, Level 2	Laboratory Report, SDG 580-116857-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116857-1
RHMW04	RHMW04-WGN01B-2208WK2	580-116857-1	2022-08-10	5801168571_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116857-1, Level 2	Laboratory Report, SDG 580-116857-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116857-1
RHMW06	RHMW06-WGN01B-2208WK2	580-116857-1	2022-08-10	5801168571_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116857-1, Level 2	Laboratory Report, SDG 580-116857-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116857-1
RHMW08	RHMW08-WGN01B-2208WK2	580-116857-1	2022-08-10	5801168571_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116857-1, Level 2	Laboratory Report, SDG 580-116857-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116857-1
RHMW17	RHMW17-WGN01B-2208WK2	580-116857-1	2022-08-10	5801168571_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116857-1, Level 2	Laboratory Report, SDG 580-116857-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116857-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2208WK2	580-116924-1	2022-08-11	5801169241_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116924-1, Level 2, Revision 1	Laboratory Report, SDG 580-116924-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-116924-1
RHMW2254-01	RHMW2254-01-WGN01B-2208WK2	580-116924-1	2022-08-11	5801169241_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116924-1, Level 2, Revision 1	Laboratory Report, SDG 580-116924-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-116924-1
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK2	580-116924-1	2022-08-11	5801169241_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116924-1, Level 2, Revision 1	Laboratory Report, SDG 580-116924-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-116924-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2208WK2	580-116925-1	2022-08-11	5801169251_L2B	Eurofins Seattle	Laboratory Report SDG 580-116925-1, Level 2, Revision 2	Laboratory Report SDG 580-116925-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116925-1
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK2	580-116925-1	2022-08-11	5801169251_L2B	Eurofins Seattle	Laboratory Report SDG 580-116925-1, Level 2, Revision 2	Laboratory Report SDG 580-116925-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116925-1
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK2	580-116926-1	2022-08-11	5801169261_L2B	Eurofins Seattle	Laboratory Report SDG 580-116926-1, Level 2, Revision 1	Laboratory Report SDG 580-116926-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-116926-1
RHMW11-05	RHMW11-05-WGN01G-2208WK2	580-116979-1	2022-08-12	5801169791_L2B	Eurofins Seattle	Laboratory Report SDG 580-116979-1, Level 2, Revision 2	Laboratory Report SDG 580-116979-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116979-1
RHMW15-05	RHMW15-05-WGN01G-2208WK2	580-116979-1	2022-08-12	5801169791_L2B	Eurofins Seattle	Laboratory Report SDG 580-116979-1, Level 2, Revision 2	Laboratory Report SDG 580-116979-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116979-1
RHMW13-05	RHMW13-05-WGN01G-2208WK2	580-116979-1	2022-08-13	5801169791_L2B	Eurofins Seattle	Laboratory Report SDG 580-116979-1, Level 2, Revision 2	Laboratory Report SDG 580-116979-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116979-1
RHMW14-03	RHMW14-03-WGN01G-2208WK2	580-116979-1	2022-08-13	5801169791_L2B	Eurofins Seattle	Laboratory Report SDG 580-116979-1, Level 2, Revision 2	Laboratory Report SDG 580-116979-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116979-1
Week of 2022-08-14 to 2022-08-20								
RHMW15-05	RHMW15-05-WGN01G-2208WK3	580-116979-1	2022-08-15	5801169791_L2B	Eurofins Seattle	Laboratory Report SDG 580-116979-1, Level 2, Revision 2	Laboratory Report SDG 580-116979-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-116979-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2208WK3	580-116988-1	2022-08-15	5801169881_L2B	Eurofins Seattle	Laboratory Report SDG 580-116988-1, Level 2, Revision 2	Laboratory Report SDG 580-116988-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-116988-1
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK3	580-116988-1	2022-08-15	5801169881_L2B	Eurofins Seattle	Laboratory Report SDG 580-116988-1, Level 2, Revision 2	Laboratory Report SDG 580-116988-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-116988-1
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK3	580-116988-1	2022-08-15	5801169881_L2B	Eurofins Seattle	Laboratory Report SDG 580-116988-1, Level 2, Revision 2	Laboratory Report SDG 580-116988-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-116988-1
RHMW09	RHMW09-WGN01B-2208WK3	580-116988-1	2022-08-15	5801169881_L2B	Eurofins Seattle	Laboratory Report SDG 580-116988-1, Level 2, Revision 2	Laboratory Report SDG 580-116988-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-116988-1
RHMW19	RHMW19-WGN01B-2208WK3	580-116988-1	2022-08-15	5801169881_L2B	Eurofins Seattle	Laboratory Report SDG 580-116988-1, Level 2, Revision 2	Laboratory Report SDG 580-116988-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-116988-1
RHMW02	RHMW02-WGN01B-2208WK3	580-117032-1	2022-08-16	5801170321_L2B	Eurofins Seattle	Laboratory Report SDG 580-117032-1, Level 2	Laboratory Report SDG 580-117032-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117032-1
RHMW03	RHMW03-WGN01B-2208WK3	580-117032-1	2022-08-16	5801170321_L2B	Eurofins Seattle	Laboratory Report SDG 580-117032-1, Level 2	Laboratory Report SDG 580-117032-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117032-1
RHMW12A	RHMW12A-WGN01LF-2208WK3	580-117032-1	2022-08-16	5801170321_L2B	Eurofins Seattle	Laboratory Report SDG 580-117032-1, Level 2	Laboratory Report SDG 580-117032-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117032-1
RHMW14-03	RHMW14-03-WGN01G-2208WK3	580-117032-1	2022-08-16	5801170321_L2B	Eurofins Seattle	Laboratory Report SDG 580-117032-1, Level 2	Laboratory Report SDG 580-117032-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117032-1
RHMW16	RHMW16-WGN01LF-2208WK3	580-117032-1	2022-08-16	5801170321_L2B	Eurofins Seattle	Laboratory Report SDG 580-117032-1, Level 2	Laboratory Report SDG 580-117032-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117032-1
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK3	580-117150-1	2022-08-18	5801171501_L2B	Eurofins Seattle	Laboratory Report SDG 580-117150-1, Level 2, Revision 1	Laboratory Report SDG 580-117150, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117150-1
RHMW2254-01	RHMW2254-01-WGN01B-2208WK3	580-117150-1	2022-08-18	5801171501_L2B	Eurofins Seattle	Laboratory Report SDG 580-117150-1, Level 2, Revision 1	Laboratory Report SDG 580-117150, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117150-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2208WK3	580-117150-1	2022-08-19	5801171501_L2B	Eurofins Seattle	Laboratory Report SDG 580-117150-1, Level 2, Revision 1	Laboratory Report SDG 580-117150, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117150-1
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK3	580-117150-1	2022-08-19	5801171501_L2B	Eurofins Seattle	Laboratory Report SDG 580-117150-1, Level 2, Revision 1	Laboratory Report SDG 580-117150, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117150-1
Week of 2022-08-21 to 2022-08-27								
OWDFMW04A	OWDFMW04A-WGFD01LF-2208WK4	580-117203-1	2022-08-22	5801172031_L2B	Eurofins Seattle	Laboratory Report SDG 580-117203-1, Level 2, Revision	Laboratory Report SDG 580-117203-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117203-1
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK4	580-117203-1	2022-08-22	5801172031_L2B	Eurofins Seattle	Laboratory Report SDG 580-117203-1, Level 2, Revision	Laboratory Report SDG 580-117203-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117203-1
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK4	580-117203-1	2022-08-22	5801172031_L2B	Eurofins Seattle	Laboratory Report SDG 580-117203-1, Level 2, Revision	Laboratory Report SDG 580-117203-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117203-1
RHMW09	RHMW09-WGN01B-2208WK4	580-117203-1	2022-08-22	5801172031_L2B	Eurofins Seattle	Laboratory Report SDG 580-117203-1, Level 2, Revision	Laboratory Report SDG 580-117203-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117203-1
RHMW11-05	RHMW11-05-WGN01G-2208WK4	580-117203-1	2022-08-22	5801172031_L2B	Eurofins Seattle	Laboratory Report SDG 580-117203-1, Level 2, Revision	Laboratory Report SDG 580-117203-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117203-1
RHMW14-03	RHMW14-03-WGN01G-2208WK4	580-117203-1	2022-08-22	5801172031_L2B	Eurofins Seattle	Laboratory Report SDG 580-117203-1, Level 2, Revision	Laboratory Report SDG 580-117203-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117203-1
RHMW19	RHMW19-WGN01B-2208WK4	580-117203-1	2022-08-22	5801172031_L2B	Eurofins Seattle	Laboratory Report SDG 580-117203-1, Level 2, Revision	Laboratory Report SDG 580-117203-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117203-1
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK4	580-117247-1	2022-08-23	5801172471_L2B_rev2	Eurofins Seattle	Laboratory Report SDG 580-117247-1, Level 2, Revision 4	Laboratory Report SDG 580-117247-1, Level 4, Revision 4	Data Validation Report Level 2B SDG 580-117247-1REV2
RHMW01R	RHMW01R-WGN01B-2208WK4	580-117247-1	2022-08-23	5801172471_L2B_rev2	Eurofins Seattle	Laboratory Report SDG 580-117247-1, Level 2, Revision 4	Laboratory Report SDG 580-117247-1, Level 4, Revision 4	Data Validation Report Level 2B SDG 580-117247-1REV2
RHMW03	RHMW03-WGN01B-2208WK4	580-117247-1	2022-08-23	5801172471_L2B_rev2	Eurofins Seattle	Laboratory Report SDG 580-117247-1, Level 2, Revision 4	Laboratory Report SDG 580-117247-1, Level 4, Revision 4	Data Validation Report Level 2B SDG 580-117247-1REV2
RHMW05	RHMW05-WGN01B-2208WK4	580-117247-1	2022-08-23	5801172471_L2B_rev2	Eurofins Seattle	Laboratory Report SDG 580-117247-1, Level 2, Revision 4	Laboratory Report SDG 580-117247-1, Level 4, Revision 4	Data Validation Report Level 2B SDG 580-117247-1REV2
RHMW15-05	RHMW15-05-WGN01G-2208WK4	580-117247-1	2022-08-23	5801172471_L2B_rev2	Eurofins Seattle	Laboratory Report SDG 580-117247-1, Level 2, Revision 4	Laboratory Report SDG 580-117247-1, Level 4, Revision 4	Data Validation Report Level 2B SDG 580-117247-1REV2
Week of 2022-08-28 to 2022-09-03								
OWDFMW04A	OWDFMW04A-WGFD01LF-2208WK5	580-117408-1	2022-08-29	5801174081_L2B	Eurofins Seattle	Laboratory Report SDG 580-117408-1, Level 2, Revision 1	Laboratory Report SDG 580-117408-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-117408-1
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK5	580-117408-1	2022-08-29	5801174081_L2B	Eurofins Seattle	Laboratory Report SDG 580-117408-1, Level 2, Revision 1	Laboratory Report SDG 580-117408-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-117408-1
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK5	580-117408-1	2022-08-29	5801174081_L2B	Eurofins Seattle	Laboratory Report SDG 580-117408-1, Level 2, Revision 1	Laboratory Report SDG 580-117408-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-117408-1
RHMW09	RHMW09-WGN01B-2208WK5	580-117408-1	2022-08-29	5801174081_L2B	Eurofins Seattle	Laboratory Report SDG 580-117408-1, Level 2, Revision 1	Laboratory Report SDG 580-117408-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-117408-1
RHMW19	RHMW19-WGN01B-2208WK5	580-117408-1	2022-08-29	5801174081_L2B	Eurofins Seattle	Laboratory Report SDG 580-117408-1, Level 2, Revision 1	Laboratory Report SDG 580-117408-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-117408-1

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW11-05	RHMW11-05-WGN01G-2208WK5	580-117450-1	2022-08-29	5801174501_L2B	Eurofins Seattle	Laboratory Report SDG 580-117450-1, Level 2, Revision 1	Laboratory Report SDG 580-117450-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-117450-1
RHMW14-03	RHMW14-03-WGN01G-2208WK5	580-117450-1	2022-08-29	5801174501_L2B	Eurofins Seattle	Laboratory Report SDG 580-117450-1, Level 2, Revision 1	Laboratory Report SDG 580-117450-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-117450-1
OWDFMW07A	OWDFMW07A-WGN01LF-2208WK5	580-117453-1	2022-08-30	5801174531_L2B	Eurofins Seattle	Laboratory Report SDG 580-117453-1, Level 2, Revision 1	Laboratory Report SDG 580-117453-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117453-1
RHMW15-05	RHMW15-05-WGN01G-2208WK5	580-117453-1	2022-08-30	5801174531_L2B	Eurofins Seattle	Laboratory Report SDG 580-117453-1, Level 2, Revision 1	Laboratory Report SDG 580-117453-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117453-1
RHMW01R	RHMW01R-WGN01B-2208WK5	580-117486-1	2022-08-30	5801174861_L2B	Eurofins Seattle	Laboratory Report SDG 580-117486-1, Level 2, Rev 1	Laboratory Report SDG 580-117486-1, Level 4, Rev 1	Data Validation Report Level 2B SDG 580-117486-1
RHMW02	RHMW02-WGN01B-2208WK5	580-117486-1	2022-08-30	5801174861_L2B	Eurofins Seattle	Laboratory Report SDG 580-117486-1, Level 2, Rev 1	Laboratory Report SDG 580-117486-1, Level 4, Rev 1	Data Validation Report Level 2B SDG 580-117486-1
RHMW03	RHMW03-WGN01B-2208WK5	580-117486-1	2022-08-30	5801174861_L2B	Eurofins Seattle	Laboratory Report SDG 580-117486-1, Level 2, Rev 1	Laboratory Report SDG 580-117486-1, Level 4, Rev 1	Data Validation Report Level 2B SDG 580-117486-1
RHMW05	RHMW05-WGN01B-2208WK5	580-117486-1	2022-08-30	5801174861_L2B	Eurofins Seattle	Laboratory Report SDG 580-117486-1, Level 2, Rev 1	Laboratory Report SDG 580-117486-1, Level 4, Rev 1	Data Validation Report Level 2B SDG 580-117486-1
RHMW13-05	RHMW13-05-WGN01G-2208WK5	580-117486-1	2022-08-31	5801174861_L2B	Eurofins Seattle	Laboratory Report SDG 580-117486-1, Level 2, Rev 1	Laboratory Report SDG 580-117486-1, Level 4, Rev 1	Data Validation Report Level 2B SDG 580-117486-1
OWDFMW01	OWDFMW01-WGN01LF-2208WK5	580-117487-1	2022-08-31	5801174871_L2B	Eurofins Seattle	Laboratory Report SDG 580-117487-1, Level 2, Revision 1	Laboratory Report SDG 580-117487-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117487-1
RHMW04	RHMW04-WGFD01B-2208WK5	580-117487-1	2022-08-31	5801174871_L2B	Eurofins Seattle	Laboratory Report SDG 580-117487-1, Level 2, Revision 1	Laboratory Report SDG 580-117487-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117487-1
RHMW04	RHMW04-WGN01B-2208WK5	580-117487-1	2022-08-31	5801174871_L2B	Eurofins Seattle	Laboratory Report SDG 580-117487-1, Level 2, Revision 1	Laboratory Report SDG 580-117487-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117487-1
RHMW06	RHMW06-WGN01B-2208WK5	580-117487-1	2022-08-31	5801174871_L2B	Eurofins Seattle	Laboratory Report SDG 580-117487-1, Level 2, Revision 1	Laboratory Report SDG 580-117487-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117487-1
RHMW08	RHMW08-WGN01B-2208WK5	580-117487-1	2022-08-31	5801174871_L2B	Eurofins Seattle	Laboratory Report SDG 580-117487-1, Level 2, Revision 1	Laboratory Report SDG 580-117487-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117487-1
RHMW17	RHMW17-WGN01B-2208WK5	580-117596-1	2022-08-31	5801175961_L2B_rev	Eurofins Seattle	Laboratory Report SDG 580-117596-1, Level 2	Laboratory Report SDG 580-117596-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117596-1REV
RHMW12A	RHMW12A-WGN01LF-2208WK5	580-117596-1	2022-09-01	5801175961_L2B_rev	Eurofins Seattle	Laboratory Report SDG 580-117596-1, Level 2	Laboratory Report SDG 580-117596-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117596-1REV
RHMW16	RHMW16-WGN01LF-2208WK5	580-117596-1	2022-09-01	5801175961_L2B_rev	Eurofins Seattle	Laboratory Report SDG 580-117596-1, Level 2	Laboratory Report SDG 580-117596-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117596-1REV
RHMW2254-01	RHMW2254-01-WGN01B-2208WK5	580-117596-1	2022-09-01	5801175961_L2B_rev	Eurofins Seattle	Laboratory Report SDG 580-117596-1, Level 2	Laboratory Report SDG 580-117596-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117596-1REV
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK5	580-117596-1	2022-09-01	5801175961_L2B_rev	Eurofins Seattle	Laboratory Report SDG 580-117596-1, Level 2	Laboratory Report SDG 580-117596-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117596-1REV
Week of 2022-09-04 to 2022-09-10								
OWDFMW04A	OWDFMW04A-WGFD01LF-2209WK1	580-117637-1	2022-09-06	5801176371_L2B	Eurofins Seattle	Laboratory Report SDG 580-117637-1, Level 2	Laboratory Report SDG 580-117637-1, Level 4	Data Validation Report Level 2B SDG 580-117637-1
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK1	580-117637-1	2022-09-06	5801176371_L2B	Eurofins Seattle	Laboratory Report SDG 580-117637-1, Level 2	Laboratory Report SDG 580-117637-1, Level 4	Data Validation Report Level 2B SDG 580-117637-1
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK1	580-117637-1	2022-09-06	5801176371_L2B	Eurofins Seattle	Laboratory Report SDG 580-117637-1, Level 2	Laboratory Report SDG 580-117637-1, Level 4	Data Validation Report Level 2B SDG 580-117637-1
RHMW13-05	RHMW13-05-WGN01G-2209WK1	580-117798-1	2022-09-09	5801177981_L2B	Eurofins Seattle	Laboratory Report SDG 580-117798-1, Level 2, Revision 1	Laboratory Report SDG 580-117798-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117798-1
Week of 2022-09-11 to 2022-09-17								
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK2	580-117798-1	2022-09-12	5801177981_L2B	Eurofins Seattle	Laboratory Report SDG 580-117798-1, Level 2, Revision 1	Laboratory Report SDG 580-117798-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117798-1
RHMW15-05	RHMW15-05-WGN01G-2209WK2	580-117798-1	2022-09-12	5801177981_L2B	Eurofins Seattle	Laboratory Report SDG 580-117798-1, Level 2, Revision 1	Laboratory Report SDG 580-117798-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117798-1
OWDFMW01	OWDFMW01-WGN01LF-2209WK2	580-117905-1	2022-09-14	5801179051_L2B	Eurofins Seattle	Laboratory Report SDG 580-117905-1, Level 2, Revision 1	Laboratory Report SDG 580-117905-1, Level , Revision 1	Data Validation Report Level 2B SDG 580-117905-1
RHMW04	RHMW04-WGFD01B-2209WK2	580-117905-1	2022-09-14	5801179051_L2B	Eurofins Seattle	Laboratory Report SDG 580-117905-1, Level 2, Revision 1	Laboratory Report SDG 580-117905-1, Level , Revision 1	Data Validation Report Level 2B SDG 580-117905-1
RHMW04	RHMW04-WGN01B-2209WK2	580-117905-1	2022-09-14	5801179051_L2B	Eurofins Seattle	Laboratory Report SDG 580-117905-1, Level 2, Revision 1	Laboratory Report SDG 580-117905-1, Level , Revision 1	Data Validation Report Level 2B SDG 580-117905-1
RHMW06	RHMW06-WGN01B-2209WK2	580-117905-1	2022-09-14	5801179051_L2B	Eurofins Seattle	Laboratory Report SDG 580-117905-1, Level 2, Revision 1	Laboratory Report SDG 580-117905-1, Level , Revision 1	Data Validation Report Level 2B SDG 580-117905-1
RHMW08	RHMW08-WGN01B-2209WK2	580-117905-1	2022-09-14	5801179051_L2B	Eurofins Seattle	Laboratory Report SDG 580-117905-1, Level 2, Revision 1	Laboratory Report SDG 580-117905-1, Level , Revision 1	Data Validation Report Level 2B SDG 580-117905-1
RHMW13-05	RHMW13-05-WGN01G-2209WK2	580-117905-1	2022-09-14	5801179051_L2B	Eurofins Seattle	Laboratory Report SDG 580-117905-1, Level 2, Revision 1	Laboratory Report SDG 580-117905-1, Level , Revision 1	Data Validation Report Level 2B SDG 580-117905-1
RHMW17	RHMW17-WGN01B-2209WK2	580-117905-1	2022-09-14	5801179051_L2B	Eurofins Seattle	Laboratory Report SDG 580-117905-1, Level 2, Revision 1	Laboratory Report SDG 580-117905-1, Level , Revision 1	Data Validation Report Level 2B SDG 580-117905-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2209WK2	580-117960-1	2022-09-15	5801179601_L2B	Eurofins Seattle	Laboratory Report SDG 580-117960-1, Level 2, Revision 1	Laboratory Report SDG 580-117960-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117960-1
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK2	580-117960-1	2022-09-15	5801179601_L2B	Eurofins Seattle	Laboratory Report SDG 580-117960-1, Level 2, Revision 1	Laboratory Report SDG 580-117960-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117960-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2209WK2	580-117960-1	2022-09-15	5801179601_L2B	Eurofins Seattle	Laboratory Report SDG 580-117960-1, Level 2, Revision 1	Laboratory Report SDG 580-117960-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117960-1
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK2	580-117960-1	2022-09-15	5801179601_L2B	Eurofins Seattle	Laboratory Report SDG 580-117960-1, Level 2, Revision 1	Laboratory Report SDG 580-117960-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117960-1
RHMW2254-01	RHMW2254-01-WGN01B-2209WK2	580-117960-1	2022-09-15	5801179601_L2B	Eurofins Seattle	Laboratory Report SDG 580-117960-1, Level 2, Revision 1	Laboratory Report SDG 580-117960-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117960-1
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK2	580-117960-1	2022-09-15	5801179601_L2B	Eurofins Seattle	Laboratory Report SDG 580-117960-1, Level 2, Revision 1	Laboratory Report SDG 580-117960-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-117960-1
Week of 2022-09-18 to 2022-09-24								
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK3	580-118121-1	2022-09-19	5801181211_L4	Eurofins Seattle	Laboratory Report SDG 580-118121-1, Level 2	Laboratory Report SDG 580-118121-1, Level 4	Data Validation Report Level 4 SDG 580-118121-1
RHMW09	RHMW09-WGN01B-2209WK3	580-118121-1	2022-09-19	5801181211_L4	Eurofins Seattle	Laboratory Report SDG 580-118121-1, Level 2	Laboratory Report SDG 580-118121-1, Level 4	Data Validation Report Level 4 SDG 580-118121-1
RHMW19	RHMW19-WGN01B-2209WK3	580-118121-1	2022-09-19	5801181211_L4	Eurofins Seattle	Laboratory Report SDG 580-118121-1, Level 2	Laboratory Report SDG 580-118121-1, Level 4	Data Validation Report Level 4 SDG 580-118121-1
RHMW02	RHMW02-WGN01B-2209WK3	580-118153-1	2022-09-20	5801181531_L2B	Eurofins Seattle	Laboratory Report SDG 580-118153-1, Level 2, Revision 1	Laboratory Report SDG 580-118153-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118153-1
RHMW03	RHMW03-WGN01B-2209WK3	580-118153-1	2022-09-20	5801181531_L2B	Eurofins Seattle	Laboratory Report SDG 580-118153-1, Level 2, Revision 1	Laboratory Report SDG 580-118153-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118153-1
RHMW05	RHMW05-WGN01B-2209WK3	580-118153-1	2022-09-20	5801181531_L2B	Eurofins Seattle	Laboratory Report SDG 580-118153-1, Level 2, Revision 1	Laboratory Report SDG 580-118153-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118153-1
RHMW14-03	RHMW14-03-WGN01G-2209WK3	580-118153-1	2022-09-20	5801181531_L2B	Eurofins Seattle	Laboratory Report SDG 580-118153-1, Level 2, Revision 1	Laboratory Report SDG 580-118153-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118153-1
OWDFMW01	OWDFMW01-WGN01LF-2209WK3	580-118187-1	2022-09-21	5801181871_L2B	Eurofins Seattle	Laboratory Report SDG 580-118187-1, Level 2, Revision 1	Laboratory Report SDG 580-118187-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118187-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2209WK3	580-118187-1	2022-09-21	5801181871_L2B	Eurofins Seattle	Laboratory Report SDG 580-118187-1, Level 2, Revision 1	Laboratory Report SDG 580-118187-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118187-1
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK3	580-118187-1	2022-09-21	5801181871_L2B	Eurofins Seattle	Laboratory Report SDG 580-118187-1, Level 2, Revision 1	Laboratory Report SDG 580-118187-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118187-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2209WK3	580-118243-1	2022-09-22	5801182431_L2B	Eurofins Seattle	Laboratory Report SDG 580-118243-1, Level 2, Revision 1	Laboratory Report SDG 580-118243-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118243-1
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK3	580-118243-1	2022-09-22	5801182431_L2B	Eurofins Seattle	Laboratory Report SDG 580-118243-1, Level 2, Revision 1	Laboratory Report SDG 580-118243-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118243-1
RHMW12A	RHMW12A-WGN01LF-2209WK3	580-118243-1	2022-09-22	5801182431_L2B	Eurofins Seattle	Laboratory Report SDG 580-118243-1, Level 2, Revision 1	Laboratory Report SDG 580-118243-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118243-1
RHMW16	RHMW16-WGN01LF-2209WK3	580-118243-1	2022-09-22	5801182431_L2B	Eurofins Seattle	Laboratory Report SDG 580-118243-1, Level 2, Revision 1	Laboratory Report SDG 580-118243-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118243-1
RHMW2254-01	RHMW2254-01-WGN01B-2209WK3	580-118243-1	2022-09-22	5801182431_L2B	Eurofins Seattle	Laboratory Report SDG 580-118243-1, Level 2, Revision 1	Laboratory Report SDG 580-118243-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118243-1
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK3	580-118243-1	2022-09-22	5801182431_L2B	Eurofins Seattle	Laboratory Report SDG 580-118243-1, Level 2, Revision 1	Laboratory Report SDG 580-118243-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118243-1

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
Sump Adit 3	ADIT3-SUMP-WGN01B-2209WK3	580-118248-1	2022-09-22	5801182481_L2B	Eurofins Seattle	Laboratory Report SDG 580-118248-1, Level 2, Revision 1	Laboratory Report SDG 580-118248-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118248-1
RHMW04	RHMW04-WGFD01B-2209WK3	580-118258-1	2022-09-23	5801182581_L2B	Eurofins Seattle	Laboratory Report SDG 580-118258-1, Level 2, Revision 2	Laboratory Report SDG 580-118258-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-118258-1
RHMW04	RHMW04-WGN01B-2209WK3	580-118258-1	2022-09-23	5801182581_L2B	Eurofins Seattle	Laboratory Report SDG 580-118258-1, Level 2, Revision 2	Laboratory Report SDG 580-118258-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-118258-1
RHMW06	RHMW06-WGN01B-2209WK3	580-118258-1	2022-09-23	5801182581_L2B	Eurofins Seattle	Laboratory Report SDG 580-118258-1, Level 2, Revision 2	Laboratory Report SDG 580-118258-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-118258-1
RHMW08	RHMW08-WGN01B-2209WK3	580-118258-1	2022-09-23	5801182581_L2B	Eurofins Seattle	Laboratory Report SDG 580-118258-1, Level 2, Revision 2	Laboratory Report SDG 580-118258-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-118258-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2209WK4	580-118300-1	2022-09-26	5801183001_L2B	Eurofins Seattle	Laboratory Report SDG 580-118300-1, Level 2, Revision 2	Laboratory Report SDG 580-118300-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-118300-1
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK4	580-118300-1	2022-09-26	5801183001_L2B	Eurofins Seattle	Laboratory Report SDG 580-118300-1, Level 2, Revision 2	Laboratory Report SDG 580-118300-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-118300-1
RHMW09	RHMW09-WGN01B-2209WK4	580-118300-1	2022-09-26	5801183001_L2B	Eurofins Seattle	Laboratory Report SDG 580-118300-1, Level 2, Revision 2	Laboratory Report SDG 580-118300-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-118300-1
RHMW19	RHMW19-WGN01B-2209WK4	580-118300-1	2022-09-26	5801183001_L2B	Eurofins Seattle	Laboratory Report SDG 580-118300-1, Level 2, Revision 2	Laboratory Report SDG 580-118300-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-118300-1
Week of 2022-09-25 to 2022-10-01								
RHMW12A	RHMW12A-WGN01LF-2209WK4	580-118302-1	2022-09-27	5801183021_L4	Eurofins Seattle	Laboratory Report SDG 580-118302-1, Level 2	Laboratory Report SDG 580-118302-1, Level 4	Data Validation Report Level 4 SDG 580-118302-1
RHMW16	RHMW16-WGN01LF-2209WK4	580-118302-1	2022-09-27	5801183021_L2B	Eurofins Seattle	Laboratory Report SDG 580-118302-1, Level 2	Laboratory Report SDG 580-118302-1, Level 4	Data Validation Report Level 4 SDG 580-118302-1
RHMW01R	RHMW01R-WGN01B-2209WK4	580-118344-1	2022-09-27	5801183441_L2B	Eurofins Seattle	Laboratory Report SDG 580-118344-1, Level 2	Laboratory Report SDG 580-118344-1, Level 4	Data Validation Report Level 2B SDG 580-118344-1
RHMW02	RHMW02-WGN01B-2209WK4	580-118344-1	2022-09-27	5801183441_L2B	Eurofins Seattle	Laboratory Report SDG 580-118344-1, Level 2	Laboratory Report SDG 580-118344-1, Level 4	Data Validation Report Level 2B SDG 580-118344-1
RHMW03	RHMW03-WGN01B-2209WK4	580-118344-1	2022-09-27	5801183441_L2B	Eurofins Seattle	Laboratory Report SDG 580-118344-1, Level 2	Laboratory Report SDG 580-118344-1, Level 4	Data Validation Report Level 2B SDG 580-118344-1
RHMW05	RHMW05-WGN01B-2209WK4	580-118344-1	2022-09-27	5801183441_L2B	Eurofins Seattle	Laboratory Report SDG 580-118344-1, Level 2	Laboratory Report SDG 580-118344-1, Level 4	Data Validation Report Level 2B SDG 580-118344-1
RHMW11-05	RHMW11-05-WGN01G-2209WK4	580-118344-1	2022-09-27	5801183441_L2B	Eurofins Seattle	Laboratory Report SDG 580-118344-1, Level 2	Laboratory Report SDG 580-118344-1, Level 4	Data Validation Report Level 2B SDG 580-118344-1
RHMW14-03	RHMW14-03-WGN01G-2209WK4	580-118344-1	2022-09-27	5801183441_L2B	Eurofins Seattle	Laboratory Report SDG 580-118344-1, Level 2	Laboratory Report SDG 580-118344-1, Level 4	Data Validation Report Level 2B SDG 580-118344-1
OWDFMW01	OWDFMW01-WGN01LF-2209WK4	580-118385-1	2022-09-28	5801183851_L2B	Eurofins Seattle	Laboratory Report SDG 580-118385-1, Level 2, Revision 2	Laboratory Report SDG 580-118385-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-118385-1
RHMW04	RHMW04-WGFD01B-2209WK4	580-118384-1	2022-09-28	5801183841_L2B	Eurofins Seattle	Laboratory Report SDG 580-118384-1, Level 2, Revision 1	Laboratory Report SDG 580-118384-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118384-1
RHMW04	RHMW04-WGN01B-2209WK4	580-118384-1	2022-09-28	5801183841_L2B	Eurofins Seattle	Laboratory Report SDG 580-118384-1, Level 2, Revision 1	Laboratory Report SDG 580-118384-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118384-1
RHMW06	RHMW06-WGN01B-2209WK4	580-118384-1	2022-09-28	5801183841_L2B	Eurofins Seattle	Laboratory Report SDG 580-118384-1, Level 2, Revision 1	Laboratory Report SDG 580-118384-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118384-1
RHMW08	RHMW08-WGN01B-2209WK4	580-118384-1	2022-09-28	5801183841_L2B	Eurofins Seattle	Laboratory Report SDG 580-118384-1, Level 2, Revision 1	Laboratory Report SDG 580-118384-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118384-1
RHMW13-05	RHMW13-05-WGN01G-2209WK4	580-118384-1	2022-09-28	5801183841_L2B	Eurofins Seattle	Laboratory Report SDG 580-118384-1, Level 2, Revision 1	Laboratory Report SDG 580-118384-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118384-1
RHMW17	RHMW17-WGN01B-2209WK4	580-118384-1	2022-09-28	5801183841_L2B	Eurofins Seattle	Laboratory Report SDG 580-118384-1, Level 2, Revision 1	Laboratory Report SDG 580-118384-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118384-1
Week of 2022-10-02 to 2022-10-08								
OWDFMW04A	OWDFMW04A-WGFD01LF-2210WK1	580-118476-1	2022-10-03	5801184761_L2B	Eurofins Seattle	Laboratory Report SDG 580-118476-1, Level 2, Revision 1	Laboratory Report SDG 580-118476-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118476-1
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK1	580-118476-1	2022-10-03	5801184761_L2B	Eurofins Seattle	Laboratory Report SDG 580-118476-1, Level 2, Revision 1	Laboratory Report SDG 580-118476-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118476-1
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK1	580-118476-1	2022-10-03	5801184761_L2B	Eurofins Seattle	Laboratory Report SDG 580-118476-1, Level 2, Revision 1	Laboratory Report SDG 580-118476-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118476-1
RHMW19	RHMW19-WGN01B-2210WK1	580-118476-1	2022-10-03	5801184761_L2B	Eurofins Seattle	Laboratory Report SDG 580-118476-1, Level 2, Revision 1	Laboratory Report SDG 580-118476-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-118476-1
RHMW13-05	RHMW13-05-WGN01G-2210WK1	580-118671-1	2022-10-06	5801186711_L2B	Eurofins Seattle	Laboratory Report SDG 580-118671-1, Level 2	Laboratory Report SDG 580-118671-1, Level 4	Data Validation Report Level 2B SDG 580-118671-1

Notes:
COC = chain of custody
DVR = data validation report
Energy = Energy Laboratories
Eurofins Seattle = Eurofins Laboratories, Seattle WA
NOI = Notice of Interest
SDG = sample delivery group
Gray shading indicates data from previous reporting periods.
Green shading indicates data from the current reporting period for this Release Response Report.
If a SDG or DVR includes samples collected over multiple weeks, the associated file is provided in the first week where it occurs.
[a] Laboratory report was provided in a previous Release Response Report.

Table D-2: Delineation Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
Week of 2022-06-05 to 2022-06-11								
RHP02	RHP02-WGN03LF-220608	580-114718-1	2022-06-08	Data Validation Report Level S2AVEM, SDG 580-114718-1	Eurofins Seattle	Laboratory Report, SDG 580-114718-1, Level 2, Revision 4, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-114718-1, Level 4, Revision 4, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1147181, AECOM, 2022-08-19
RHP02	RHP02-WGFD03LF-220608	580-114718-1	2022-06-08	Data Validation Report Level S2AVEM, SDG 580-114718-1	Eurofins Seattle	Laboratory Report, SDG 580-114718-1, Level 2, Revision 4, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-114718-1, Level 4, Revision 4, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1147181, AECOM, 2022-08-19
FieldQC	RHP02-WQTB-220608	580-114718-1	2022-06-08	Data Validation Report Level S2AVEM, SDG 580-114718-1	Eurofins Seattle	Laboratory Report, SDG 580-114718-1, Level 2, Revision 4, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-114718-1, Level 4, Revision 4, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1147181, AECOM, 2022-08-19
Week of 2022-06-19 to 2022-06-25								
RHP01	RHP01-WGN01LF-2206WK3	580-115059-1	2022-06-20	Data Validation Report Level S2AVEM, SDG 580-115059-1	Eurofins Seattle	Laboratory Report, SDG 580-115059-1, Level 2, Revision 4, Eurofins FGS, Seattle, 2022-08-12	Laboratory Report, SDG 580-115059-1, Level 4, Revision 4, Eurofins FGS, Seattle, 2022-08-12	Data Validation Report Level S2AVEM, SDG 580-1150591, AECOM, 2022-08-18
FieldQC	RHP01-WQTB01-2206WK3	580-115059-1	2022-06-20	Data Validation Report Level S2AVEM, SDG 580-115059-1	Eurofins Seattle	Laboratory Report, SDG 580-115059-1, Level 2, Revision 4, Eurofins FGS, Seattle, 2022-08-12	Laboratory Report, SDG 580-115059-1, Level 4, Revision 4, Eurofins FGS, Seattle, 2022-08-12	Data Validation Report Level S2AVEM, SDG 580-1150591, AECOM, 2022-08-18
RHP01	RHP01-WGN01LF-2206WK3	580-115059-2	2022-06-20	Data Validation Report Level S2AVEM, SDG 580-115059-2LB1	Eurofins Seattle	Laboratory Report, SDG 580-115059-2, Level 2, Revision 2, Eurofins FGS, Seattle, 2022-08-12	Laboratory Report, SDG 580-115059-2, Level 4, Revision 2, Eurofins FGS, Seattle, 2022-08-12	Data Validation Report Level S2AVEM, SDG 580-1150592LB1, AECOM, 2022-08-17
RHP02	RHP02-WGN01LF-2206WK3	580-115113-1	2022-06-20	Data Validation Report Level S2AVEM, SDG 580-115113-1	Eurofins Seattle	Laboratory Report, SDG 580-115113-1, Level 2, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-115113-1, Level 4, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1151131, AECOM, 2022-08-19
FieldQC	RHP02-WQWTB01-2206WK3	580-115113-1	2022-06-20	Data Validation Report Level S2AVEM, SDG 580-115113-1	Eurofins Seattle	Laboratory Report, SDG 580-115113-1, Level 2, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-115113-1, Level 4, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1151131, AECOM, 2022-08-19
RHP02	RHP02-WGN01LF-2206WK3	580-115113-2	2022-06-20	Data Validation Report Level S2AVEM, SDG 580-115113-2LB1	Eurofins Seattle	Laboratory Report, SDG 580-115113-2, Level 2, Revision 3, Eurofins FGS, Seattle, 2022-08-12	Laboratory Report, SDG 580-115113-2, Level 4, Revision 3, Eurofins FGS, Seattle, 2022-08-12	Data Validation Report Level S2AVEM, SDG 580-1151132LB1, AECOM, 2022-08-17
Week of 2022-07-03 to 2022-07-09								
RHP01	RHP01-WGN01LF-2207WK1	580-115709-1	2022-07-06	Data Validation Report Level S2AVEM, SDG 580-115709-1	Eurofins Seattle	Laboratory Report, SDG 580-115709-1, Level 2, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-115709-1, Level 4, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1157091, AECOM, 2022-08-20
RHP02	RHP02-WGN01LF-2207WK1	580-115709-1	2022-07-06	Data Validation Report Level S2AVEM, SDG 580-115709-1	Eurofins Seattle	Laboratory Report, SDG 580-115709-1, Level 2, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-115709-1, Level 4, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1157091, AECOM, 2022-08-20
FieldQC	RHP01-WQTB01-2207WK1	580-115709-1	2022-07-06	Data Validation Report Level S2AVEM, SDG 580-115709-1	Eurofins Seattle	Laboratory Report, SDG 580-115709-1, Level 2, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-115709-1, Level 4, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1157091, AECOM, 2022-08-20
RHP01	RHP01-WGN01LF-2207WK1	580-115706-1	2022-07-06	Data Validation Report Level S2AVEM, SDG 580-115706-1LB1	Eurofins Seattle	Laboratory Report, SDG 580-115706-1, Level 2 , Eurofins FGS, Seattle, 2022-07-28	Laboratory Report, SDG 580-115706-1, Level 4 , Eurofins FGS, Seattle, 2022-07-28	Data Validation Report Level S2AVEM, SDG 580-1157061LB1, AECOM, 2022-08-17
Week of 2022-07-17 to 2022-07-23								
RHP01	RHP01-WGN01LF-220718	580-116056-1	2022-07-18	Data Validation Report Level S2AVEM, SDG 580-116056-1	Eurofins Seattle	Laboratory Report, SDG 580-116056-1, Level 2, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-116056-1, Level 4, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1160561, AECOM, 2022-08-20
RHP02	RHP02-WGN01LF-220718	580-116056-1	2022-07-18	Data Validation Report Level S2AVEM, SDG 580-116056-1	Eurofins Seattle	Laboratory Report, SDG 580-116056-1, Level 2, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-116056-1, Level 4, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1160561, AECOM, 2022-08-20
FieldQC	RHP01-WQTB01-220718	580-116056-1	2022-07-18	Data Validation Report Level S2AVEM, SDG 580-116056-1	Eurofins Seattle	Laboratory Report, SDG 580-116056-1, Level 2, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Laboratory Report, SDG 580-116056-1, Level 4, Revision 2, Eurofins FGS, Seattle, 2022-08-11	Data Validation Report Level S2AVEM, SDG 580-1160561, AECOM, 2022-08-20
Week of 2022-07-31 to 2022-08-06								
RHP01	RHP01-WGN01LF-2208WK1	580-116513-1	2022-08-01	Data Validation Report Level S2AVEM, SDG 580-116513-1	Eurofins Seattle	Laboratory Report, SDG 580-116513-1, Level 2, Revision 1, Eurofins FGS, Seattle, 2022-08-23	Laboratory Report, SDG 580-116513-1, Level 4, Revision 1, Eurofins FGS, Seattle, 2022-08-23	Data Validation Report Level S2AVEM, SDG 580-1165131, AECOM, 2022-08-23
FieldQC	RHP01-WQTB01-2208WK1	580-116513-1	2022-08-01	Data Validation Report Level S2AVEM, SDG 580-116513-1	Eurofins Seattle	Laboratory Report, SDG 580-116513-1, Level 2, Revision 1, Eurofins FGS, Seattle, 2022-08-23	Laboratory Report, SDG 580-116513-1, Level 4, Revision 1, Eurofins FGS, Seattle, 2022-08-23	Data Validation Report Level S2AVEM, SDG 580-1165131, AECOM, 2022-08-23
RHP02	RHP02-WGN01B-2208WK1	580-116779-1	2022-08-04	Data Validation Report Level S2AVEM, SDG 580-116779-1	Eurofins Seattle	Laboratory Report, SDG 580-116779-1, Level 2, Eurofins FGS, Seattle, 2022-08-12	Laboratory Report, SDG 580-116779-1, Level 4, Eurofins FGS, Seattle, 2022-08-12	Data Validation Report Level S2AVEM, SDG 580-1167791, AECOM, 2022-08-20
FieldQC	RHP02-WQTB01-2208WK1	580-116779-1	2022-08-04	Data Validation Report Level S2AVEM, SDG 580-116779-1	Eurofins Seattle	Laboratory Report, SDG 580-116779-1, Level 2, Eurofins FGS, Seattle, 2022-08-12	Laboratory Report, SDG 580-116779-1, Level 4, Eurofins FGS, Seattle, 2022-08-12	Data Validation Report Level S2AVEM, SDG 580-1167791, AECOM, 2022-08-20
Week of 2022-08-07 to 2022-08-13								
RHP03	RHP03-WGN02LF-2208WK3	580-116921-1	2022-08-11	Data Validation Report Level S4VEM, SDG 580-116921-1	Eurofins Seattle	Laboratory Report, SDG 580-116921-1, Level 2 , Eurofins FGS, Seattle, 2022-08-22	Laboratory Report, SDG 580-116921-1, Level 4, Eurofins FGS, Seattle, 2022-08-22	Data Validation Report Level S4VEM, SDG 580-116921-1, Environmental Data Services, Ltd., 2022-08-31
FieldQC	RHP03-WQTB02-2208WK3	580-116921-1	2022-08-11	Data Validation Report Level S4VEM, SDG 580-116921-1	Eurofins Seattle	Laboratory Report, SDG 580-116921-1, Level 2 , Eurofins FGS, Seattle, 2022-08-22	Laboratory Report, SDG 580-116921-1, Level 4, Eurofins FGS, Seattle, 2022-08-22	Data Validation Report Level S4VEM, SDG 580-116921-1, Environmental Data Services, Ltd., 2022-08-31
RHP03	RHP03-WGN02LF-2208WK3	580-116921-2	2022-08-11	Data Validation Report Level S4VEM, SDG 580-116921-2	Eurofins Seattle	Laboratory Report, SDG 580-116921-2, Level 2, Eurofins FGS, Seattle, 2022-08-24	Laboratory Report, SDG 580-116921-2, Level 4, Eurofins FGS, Seattle, 2022-08-24	Data Validation Report Level S4VEM, SDG 580-116921-2, Environmental Data Services, Ltd., 2022-09-29
FieldQC	RHP03-WQTB02-2208WK3	580-116921-2	2022-08-11	Data Validation Report Level S4VEM, SDG 580-116921-2	Eurofins Seattle	Laboratory Report, SDG 580-116921-2, Level 2, Eurofins FGS, Seattle, 2022-08-24	Laboratory Report, SDG 580-116921-2, Level 4, Eurofins FGS, Seattle, 2022-08-24	Data Validation Report Level S4VEM, SDG 580-116921-2, Environmental Data Services, Ltd., 2022-09-29
RHP04A	RHP04A-WGN01LF-2208WK3	580-116927-2	2022-08-12	Data Validation Report Level S2BVEM, SDG 580-116927-2	Eurofins Seattle	Laboratory Report, SDG 580-116927-2, Level 2, Eurofins FGS, Seattle, 2022-08-22	Laboratory Report, SDG 580-116927-2, Level 4, Eurofins FGS, Seattle, 2022-08-22	Data Validation Report Level S2BVEM, SDG 580-116927-2, Environmental Data Services, Ltd., 2022-08-31
RHP04A	RHP04A-WGFD01LF-2208WK3	580-116927-2	2022-08-12	Data Validation Report Level S2BVEM, SDG 580-116927-2	Eurofins Seattle	Laboratory Report, SDG 580-116927-2, Level 2, Eurofins FGS, Seattle, 2022-08-22	Laboratory Report, SDG 580-116927-2, Level 4, Eurofins FGS, Seattle, 2022-08-22	Data Validation Report Level S2BVEM, SDG 580-116927-2, Environmental Data Services, Ltd., 2022-08-31
FieldQC	RHP04A-WQTB01-2208WK3	580-116927-2	2022-08-12	Data Validation Report Level S2BVEM, SDG 580-116927-2	Eurofins Seattle	Laboratory Report, SDG 580-116927-2, Level 2, Eurofins FGS, Seattle, 2022-08-22	Laboratory Report, SDG 580-116927-2, Level 4, Eurofins FGS, Seattle, 2022-08-22	Data Validation Report Level S2BVEM, SDG 580-116927-2, Environmental Data Services, Ltd., 2022-08-31
RHP04A	RHP04A-WGN01LF-2208WK3	580-116927-1	2022-08-12	Data Validation Report Level S2BVEM, SDG 580-116927-1	Eurofins Seattle	Laboratory Report, SDG 580-116927-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-116927-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-116927-1, Environmental Data Services, Ltd., 2022-10-05
RHP04A	RHP04A-WGFD01LF-2208WK3	580-116927-1	2022-08-12	Data Validation Report Level S2BVEM, SDG 580-116927-1	Eurofins Seattle	Laboratory Report, SDG 580-116927-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-116927-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-116927-1, Environmental Data Services, Ltd., 2022-10-05
FieldQC	RHP04A-WQTB01-2208WK3	580-116927-1	2022-08-12	Data Validation Report Level S2BVEM, SDG 580-116927-1	Eurofins Seattle	Laboratory Report, SDG 580-116927-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-116927-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-116927-1, Environmental Data Services, Ltd., 2022-10-05
Week of 2022-08-14 to 2022-08-20								
RHP01	RHP01-WGN01LF-2208WK3	580-117089-1	2022-08-17	Data Validation Report Level S2BVEM, SDG 580-117089-1	Eurofins Seattle	Laboratory Report, SDG 580-117089-1, Level 2, Eurofins FGS, Seattle, 2022-08-24	Laboratory Report, SDG 580-117089-1, Level 4, Eurofins FGS, Seattle, 2022-08-24	Data Validation Report Level S2BVEM, SDG 580-117089-1, Environmental Data Services, Ltd., 2022-09-07
FieldQC	RHP01-WQTB01-2208WK3	580-117089-1	2022-08-17	Data Validation Report Level S2BVEM, SDG 580-117089-1	Eurofins Seattle	Laboratory Report, SDG 580-117089-1, Level 2, Eurofins FGS, Seattle, 2022-08-24	Laboratory Report, SDG 580-117089-1, Level 4, Eurofins FGS, Seattle, 2022-08-24	Data Validation Report Level S2BVEM, SDG 580-117089-1, Environmental Data Services, Ltd., 2022-09-07
RHP02	RHP02-WGN01LF-2208WK3	580-117149-1	2022-08-19	Data Validation Report Level S2BVEM, SDG 580-117149-1	Eurofins Seattle	Laboratory Report, SDG 580-117149-1, Level 2 Rev(2) , Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-117149-1, Level 4 Rev(2) , Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-117149-1, Environmental Data Services, Ltd., 2022-09-07
FieldQC	RHP02-WQTB01-2208WK3	580-117149-1	2022-08-19	Data Validation Report Level S2BVEM, SDG 580-117149-1	Eurofins Seattle	Laboratory Report, SDG 580-117149-1, Level 2 Rev(2) , Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-117149-1, Level 4 Rev(2) , Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-117149-1, Environmental Data Services, Ltd., 2022-09-07
Week of 2022-08-21 to 2022-08-27								
RHP03	RHP03-WGN01LF-2208WK4	580-117317-1	2022-08-25	Data Validation Report Level S2BVEM, SDG 580-117317-1	Eurofins Seattle	Laboratory Report, SDG 580-117317-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-09-08	Laboratory Report, SDG 580-117317-1, Level 4 Rev(1), Eurofins FGS, Seattle, 2022-09-08	Data Validation Report Level S2BVEM, SDG 580-117317-1, Environmental Data Services, Ltd., 2022-09-29
FieldQC	RHP03-WQTB01-2208WK4	580-117317-1	2022-08-25	Data Validation Report Level S2BVEM, SDG 580-117317-1	Eurofins Seattle	Laboratory Report, SDG 580-117317-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-09-08	Laboratory Report, SDG 580-117317-1, Level 4 Rev(1), Eurofins FGS, Seattle, 2022-09-08	Data Validation Report Level S2BVEM, SDG 580-117317-1, Environmental Data Services, Ltd., 2022-09-29
RHP03	RHP03-WGN01LF-2208WK4	580-117338-1	2022-08-25	Data Validation Report Level S2BVEM, SDG 580-117338-1	Eurofins Seattle	Laboratory Report, SDG 580-117338-1, Level 2, Revision 1, Eurofins FGS, Seattle, 2022-09-06	Laboratory Report, SDG 580-117338-1, Level 4, Revision 1, Eurofins FGS, Seattle, 2022-09-06	Data Validation Report Level S2BVEM, SDG 580-117338-1, Environmental Data Services, Ltd., 2022-09-20

Table D-2: Delineation Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

FieldQC	RHP03-WQTB01-2208WK4	580-117338-1	2022-08-25	Data Validation Report Level S2BVEM, SDG 580-117338-1	Eurofins Seattle	Laboratory Report, SDG 580-117338-1, Level 2, Revision 1, Eurofins FGS, Seattle, 2022-09-06	Laboratory Report, SDG 580-117338-1, Level 4, Revision 1, Eurofins FGS, Seattle, 2022-09-06	Data Validation Report Level S2BVEM, SDG 580-117338-1, Environmental Data Services, Ltd., 2022-09-20
RHP04A	RHP04A-WGN01LF-2208WK4	580-117348-1	2022-08-25	Data Validation Report Level S4VEM, SDG 580-117348-1	Eurofins Seattle	Laboratory Report, SDG 580-117348-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-09-19	Laboratory Report, SDG 580-117348-1, Level 4 Rev(2), Eurofins FGS, Seattle, 2022-10-12	Data Validation Report Level S4VEM, SDG 580-117348-1, Environmental Data Services, Ltd., 2022-10-13
FieldQC	RHP04A-WQTB01-2208WK4	580-117348-1	2022-08-25	Data Validation Report Level S4VEM, SDG 580-117348-1	Eurofins Seattle	Laboratory Report, SDG 580-117348-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-09-19	Laboratory Report, SDG 580-117348-1, Level 4 Rev(2), Eurofins FGS, Seattle, 2022-10-12	Data Validation Report Level S4VEM, SDG 580-117348-1, Environmental Data Services, Ltd., 2022-10-13
RHP04A	RHP04A-WGN01LF-2208WK4	580-117348-2	2022-08-25	Data Validation Report Level S2BVEM, SDG 580-117348-2	Eurofins Seattle	Laboratory Report, SDG 580-117348-2, Level 2, Eurofins FGS, Seattle, 2022-09-08	Laboratory Report, SDG 580-117348-2, Level 4, Eurofins FGS, Seattle, 2022-09-08	Data Validation Report Level S2BVEM, SDG 580-117348-2, Environmental Data Services, Ltd., 2022-09-20
FieldQC	RHP04A-WQTB01-2208WK4	580-117348-2	2022-08-25	Data Validation Report Level S2BVEM, SDG 580-117348-2	Eurofins Seattle	Laboratory Report, SDG 580-117348-2, Level 2, Eurofins FGS, Seattle, 2022-09-08	Laboratory Report, SDG 580-117348-2, Level 4, Eurofins FGS, Seattle, 2022-09-08	Data Validation Report Level S2BVEM, SDG 580-117348-2, Environmental Data Services, Ltd., 2022-09-20
Week of 2022-08-28 to 2022-09-03								
RHP01	RHP01-WGN01LF-2208WK5	580-117573-1	2022-09-01	Data Validation Report Level S2BVEM, SDG 580-117573-1	Eurofins Seattle	Laboratory Report, SDG 580-117573-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-117573-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-117573-1, Environmental Data Services, Ltd., 2022-10-05
FieldQC	RHP01-WQTB01-2208WK5	580-117573-1	2022-09-01	Data Validation Report Level S2BVEM, SDG 580-117573-1	Eurofins Seattle	Laboratory Report, SDG 580-117573-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-117573-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-117573-1, Environmental Data Services, Ltd., 2022-10-05
RHP02	RHP02-WGN01LF-2208WK5	580-117573-1	2022-09-01	Data Validation Report Level S2BVEM, SDG 580-117573-1	Eurofins Seattle	Laboratory Report, SDG 580-117573-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-117573-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-117573-1, Environmental Data Services, Ltd., 2022-10-05
Week of 2022-09-04 to 2022-09-10								
RHP03	RHP03-WGN01LF-2209WK1	580-117750-1	2022-09-08	Data Validation Report Level S2BVEM, SDG 580-117750-1	Eurofins Seattle	Laboratory Report, SDG 580-117750-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-117750-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-117750-1, Environmental Data Services, Ltd., 2022-10-05
FieldQC	RHP03-WQTB01-2209WK1	580-117750-1	2022-09-08	Data Validation Report Level S2BVEM, SDG 580-117750-1	Eurofins Seattle	Laboratory Report, SDG 580-117750-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-117750-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-117750-1, Environmental Data Services, Ltd., 2022-10-05
RHP04A	RHP04A-WGN01LF-2209WK1	580-117750-1	2022-09-08	Data Validation Report Level S2BVEM, SDG 580-117750-1	Eurofins Seattle	Laboratory Report, SDG 580-117750-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-117750-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-117750-1, Environmental Data Services, Ltd., 2022-10-05
FieldQC	RHP04A-WQTB01-2209WK1	580-117750-1	2022-09-08	Data Validation Report Level S2BVEM, SDG 580-117750-1	Eurofins Seattle	Laboratory Report, SDG 580-117750-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-117750-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-117750-1, Environmental Data Services, Ltd., 2022-10-05
Week of 2022-09-11 to 2022-09-17								
RHP02	RHP02-WGN01LF-2209WK2	580-118009-1	2022-09-15	Data Validation Report Level S2BVEM, SDG 580-118009-1	Eurofins Seattle	Laboratory Report, SDG 580-118009-1, Level 2 Report, Eurofins FGS, Seattle, 2022-09-26	Laboratory Report, SDG 580-118009-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-10-12	Data Validation Report Level S2BVEM, SDG 580-118009-1, Environmental Data Services, Ltd., 2022-10-05
FieldQC	RHP02-WQTB01-2209WK2	580-118009-1	2022-09-15	Data Validation Report Level S2BVEM, SDG 580-118009-1	Eurofins Seattle	Laboratory Report, SDG 580-118009-1, Level 2 Report, Eurofins FGS, Seattle, 2022-09-26	Laboratory Report, SDG 580-118009-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-10-12	Data Validation Report Level S2BVEM, SDG 580-118009-1, Environmental Data Services, Ltd., 2022-10-05
RHP01	RHP01-WGN01LF-2209WK2	580-118009-1	2022-09-15	Data Validation Report Level S2BVEM, SDG 580-118009-1	Eurofins Seattle	Laboratory Report, SDG 580-118009-1, Level 2 Report, Eurofins FGS, Seattle, 2022-09-26	Laboratory Report, SDG 580-118009-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-10-12	Data Validation Report Level S2BVEM, SDG 580-118009-1, Environmental Data Services, Ltd., 2022-10-05
FieldQC	RHP01-WQTB01-2209WK2	580-118009-1	2022-09-15	Data Validation Report Level S2BVEM, SDG 580-118009-1	Eurofins Seattle	Laboratory Report, SDG 580-118009-1, Level 2 Report, Eurofins FGS, Seattle, 2022-09-26	Laboratory Report, SDG 580-118009-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-10-12	Data Validation Report Level S2BVEM, SDG 580-118009-1, Environmental Data Services, Ltd., 2022-10-05
Week of 2022-09-18 to 2022-09-24								
RHP04A	RHP03-WGN01LF-2209WK3	580-118211-1	2022-09-21	Data Validation Report Level S2BVEM, SDG 580-118211-1_rev1	Eurofins Seattle	Laboratory Report, SDG 580-118211-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-118211-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-118211-1_rev1, Environmental Data Services, Ltd., 2022-10-06
FieldQC	RHP03-WQTB01-2209WK3	580-118211-1	2022-09-21	Data Validation Report Level S2BVEM, SDG 580-118211-1_rev1	Eurofins Seattle	Laboratory Report, SDG 580-118211-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-118211-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-118211-1_rev1, Environmental Data Services, Ltd., 2022-10-06
RHP03	RHP04A-WGN01LF-2209WK3	580-118211-1	2022-09-21	Data Validation Report Level S2BVEM, SDG 580-118211-1_rev1	Eurofins Seattle	Laboratory Report, SDG 580-118211-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-118211-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-118211-1_rev1, Environmental Data Services, Ltd., 2022-10-06
FieldQC	RHP04A-WQTB01-2209WK3	580-118211-1	2022-09-21	Data Validation Report Level S2BVEM, SDG 580-118211-1_rev1	Eurofins Seattle	Laboratory Report, SDG 580-118211-1, Level 2, Eurofins FGS, Seattle, 2022-09-29	Laboratory Report, SDG 580-118211-1, Level 4, Eurofins FGS, Seattle, 2022-09-29	Data Validation Report Level S2BVEM, SDG 580-118211-1_rev1, Environmental Data Services, Ltd., 2022-10-06
Week of 2022-10-02 to 2022-10-08								
RHP02	RHP02-WGN01LF-2210WK1	580-118672-1	2022-10-07	Data Validation Report Level S2BVEM, SDG 580-118672-1	Eurofins Seattle	Laboratory Report, SDG 580-118672-1 UDS Level 2 Report, Eurofins FGS, Seattle, 2022-10-21	Laboratory Report, SDG 580-118672-1 UDS Level 4 Report, Eurofins FGS, Seattle, 2022-10-21	Data Validation Report Level S2BVEM, SDG 580-118672-1, Environmental Data Services, Ltd., 2022-11-01
Field QC	RHP02-WQTB01-2210WK1	580-118672-1	2022-10-07	Data Validation Report Level S2BVEM, SDG 580-118672-1	Eurofins Seattle	Laboratory Report, SDG 580-118672-1 UDS Level 2 Report, Eurofins FGS, Seattle, 2022-10-21	Laboratory Report, SDG 580-118672-1 UDS Level 4 Report, Eurofins FGS, Seattle, 2022-10-21	Data Validation Report Level S2BVEM, SDG 580-118672-1, Environmental Data Services, Ltd., 2022-11-01
RHP01	RHP01-WGN01LF-2210WK1	580-118672-1	2022-10-07	Data Validation Report Level S2BVEM, SDG 580-118672-1	Eurofins Seattle	Laboratory Report, SDG 580-118672-1 UDS Level 2 Report, Eurofins FGS, Seattle, 2022-10-21	Laboratory Report, SDG 580-118672-1 UDS Level 4 Report, Eurofins FGS, Seattle, 2022-10-21	Data Validation Report Level S2BVEM, SDG 580-118672-1, Environmental Data Services, Ltd., 2022-11-01
Field QC	RHP01-W1TB01-2210WK1	580-118672-1	2022-10-07	Data Validation Report Level S2BVEM, SDG 580-118672-1	Eurofins Seattle	Laboratory Report, SDG 580-118672-1 UDS Level 2 Report, Eurofins FGS, Seattle, 2022-10-21	Laboratory Report, SDG 580-118672-1 UDS Level 4 Report, Eurofins FGS, Seattle, 2022-10-21	Data Validation Report Level S2BVEM, SDG 580-118672-1, Environmental Data Services, Ltd., 2022-11-01
Week of 2022-10-09 to 2022-10-15								
RHP03	RHP03-WGN01LF-2210WK2	580-118861-1	2022-10-14	Data Validation Report Level S4VEM, SDG 580-118861-1	Eurofins Seattle	Laboratory Report, SDG 580-118861-1, Level 2, Eurofins FGS, Seattle, 2022-10-25	Laboratory Report, SDG 580-118861-1, Level 4, Eurofins FGS, Seattle, 2022-10-25	Data Validation Report Level S4VEM, SDG 580-118861-1, Environmental Data Services, Ltd., 2022-11-07
Field QC	RHP03-WQTB01-2210WK2	580-118861-1	2022-10-14	Data Validation Report Level S4VEM, SDG 580-118861-1	Eurofins Seattle	Laboratory Report, SDG 580-118861-1, Level 2, Eurofins FGS, Seattle, 2022-10-25	Laboratory Report, SDG 580-118861-1, Level 4, Eurofins FGS, Seattle, 2022-10-25	Data Validation Report Level S4VEM, SDG 580-118861-1, Environmental Data Services, Ltd., 2022-11-07
RHP04A	RHP04A-WGN01LF-2210WK2	580-118862-1	2022-10-14	Data Validation Report Level S2BVEM, SDG 580-118862-1	Eurofins Seattle	Laboratory Report, SDG 580-118862-1, Level 2, Eurofins FGS, Seattle, 2022-10-26	Laboratory Report, SDG 580-118862-1, Level 4, Eurofins FGS, Seattle, 2022-10-26	Data Validation Report Level S2BVEM, SDG 580-118862-1, Environmental Data Services, Ltd., 2022-11-07
Field QC	RHP04A-WQTB01-2210WK2	580-118862-1	2022-10-14	Data Validation Report Level S2BVEM, SDG 580-118862-1	Eurofins Seattle	Laboratory Report, SDG 580-118862-1, Level 2, Eurofins FGS, Seattle, 2022-10-26	Laboratory Report, SDG 580-118862-1, Level 4, Eurofins FGS, Seattle, 2022-10-26	Data Validation Report Level S2BVEM, SDG 580-118862-1, Environmental Data Services, Ltd., 2022-11-07

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Appendix E – Corrective Action Report, Eurofins Seattle - 1/7/2022

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eurofins | Environment Testing

Corrective Action Report

Eurofins Seattle		**Audit Name:**	DRO Discrete Peaks AECOM Complaint
Laboratory Tracking #	7168	**Audit Status:**	Open
Auditor:		**Audit Date:**	09/22/2022
Client/Agency:	AECOM	**Response Due To Client:**	11/4/2022

Finding Number:		**Laboratory Corr.Action #**	20900
Description:	Other sample data review issue		
Finding Reference:			
Corrective action status	Open	**Planned completion date:**	11/4/2022
Responsible Party:	Alex Boyle	**Date completed:**	
Repeat Finding?	No	**Departments Involved:**	GC Semi VOA
QA followup due	11/14/2022	**Lab Assigned Priority:**	2
QA followup completed:			

Issue Requiring Corrective Action:

From Client: " There are some issues with the lab method blanks at Eurofins which can potentially cause misinterpretation of the chromatographic pattern if the sample chromatograms are evaluated without looking at the chromatograms for the method blanks and may cause exceedances by adding above whatever may be in the samples. Method blanks (MB) often have peaks that have hydrocarbon like patterns. The chromatogram for the lab calibration standard is included to show where diesel and motor oil elute. This affects the results from RHMW03 2208WK4 and results in an exceedance. The MB from 2209WK1 is not as compromised and the analysis of RHMW03 2209WK1 has typical pattern (wide hump) that we typically see for RHMW03. If someone looks at the 2208WK4 samples (see RHMW03, OWDFMW07A and RHMW15-05 for example), even though some were reported as ND, if the MB is not included in the evaluation, it may be misinterpreted as a “fuel”. BOTTOM LINEs: -There is potential misinterpretation of what is in the samples if the MB are not included in the interpretation. Note that the peaks are above the diesel range (see lab calibration standard). -In some cases like for RHMW03 2208WK4, the extra peaks in the MB may trigger and exceedance and push above threshold. We should ask the lab to “clean up the blanks”. "

Investigation/Response:

It is not uncommon that we observe this pattern in DRO/RRO analysis. We have systems in place to ensure this does not lead to false positives. If a method blank contains any detections, the analytical staff know that any associated samples must be ND or 10x the concentration in the blank, otherwise re-extraction must occur. Generally speaking, if a MB does not contain any detections, then sample detections are considered legitimate without sufficient evidence of other contributing factors (high-failing surrogates, etc). However, the laboratory is aware that any detections are of concern to AECOM Red Hill projects, so if a sample contains low level detections (between DL and LOQ), then the patterns are compared to the MB to ensure there is no bias leading to the detection. The chromatogram observed in sample 2208WK4 does appear to have the alkane pattern identified in blanks, albeit atop a definitive fuel 'hump'. The RRO result for that sample was above 2x the LOQ. The associated MB also contained the alkane pattern and resulted at approximately 1/2 the MDL. The contribution is relatively negligible, though one is correct to assume it is not zero. To make sure this was not an ongoing trend, I charted our blank results from July to October and the MB associated with 2208WK4 (analyzed 8/31/22) happened to be a local maximum in the data set. Since then, the blanks have become cleaner in successive weeks.

Root Cause:

Discrete peak patterns in Method blanks, not indicative of a fuel pattern or fuel contamination, are causing a high bias for DRO quantitation.

Corrective Action Plan:

The analyst has been requesting repreparation in cases where either the sample or method blank contain contamination patterns above the detection limit. A group leader observed the extraction process and made corrections and recommendations to glassware cleaning routines. Laboratory staff are continuing to monitor for possible sources of contamination.